HYB-PRODC-32

32 Channel 2U Standalone Hybrid DVR

User's Manual

V1.0 07 / 2014

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Contents

1. FEATURES AND SPECIFICATIONS 1

1.1. Overview 1

1.2 Features 1

1.3 Specifications 2

2 OVERVIEW AND CONTROLS 6

2.1 Front Panel 6

2.2 Rear Panel 9

2.3 Connection Sample 10

2.4 Mouse Control 11

2.5 Virtual Keyboard & Front Panel 12

2.5.1 Virtual Keyboard 12

2.5.2 Front Panel 12

3 INSTALLATION AND CONNECTIONS 13

3.1 Check Unpacked DVR 13

3.2 About Front Panel and Real Panel 13

3.3 Connecting Power Supply 13

3.4 Connecting Video Input and Output Devices 13

3.4.1 Connecting Video Input 13

3.4.2 Connecting Video Output 14

3.5 Connecting Audio Input & Output, Bidirectional Audio 14

3.5.1 Audio Input 14

3.5.2 Audio Output 15

3.6 Alarm Input and Output Connection 16

3.6.1 Alarm Input and Output Details 16

3.6.2 Alarm Input Port 17

3.6.3 Alarm Output Port 18

3.7 RS232 19

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3.8 RS485 19

4 OVERVIEW OF NAVIGATION AND CONTROLS 20

4.1 Login, Logout & Main Menu 20
4.1.1 Login 20
4.1.2 Auto Resume after Power Failure 23
4.1.3 Replace Button Battery 23

4.2 Live Viewing 23
4.2.2 Preview control interface 24

4.3 Right Click Menu 25
4.3.1 Window Switch 26
4.3.2 PIP 26
4.3.3 PTZ Control 28
4.4.4 Colour 32

4.5 Navigation Bar 34
4.51 Main Menu 35
4.5.2 Output Screen 35
4.5.3 Favorites 35
4.5.4 Channel Tree 37
4.5.5 Tour 38
4.5.6 PTZ 38
4.5.7 Colour 38
4.5.8 Search 38
4.5.9 Alarm Status 38
4.5.10 Channel Info 39
4.5.11 Remote Device 39
4.5.12 Network 39
4.5.13 HDD Manager 39
4.5.14 USB Manager 39

4.6 USB Device Auto Pop-up 40

4.7 Main Menu 40

4.8 Operation 41
4.8.1 Search 41
4.8.2 Backup 47
4.8.3 Shut Down 49

4.9 Information 50
4.9.1 System Info 50
4.9.2 Event 54
4.9.3 Network 54
4.9.4 Log 57

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4.10 Setting 59
4.10.1 Camera: Remote Device (for digital channel only) 59
4.10.2 Network 69
4.10.3 Event 87
4.10.4 Storage 103
4.10.5 System 120

5. WEB OPERATION 144

5.1 Network Connection 144

5.2 Login 144

5.3 LAN Mode 146

5.4 Real-time Monitor 149

5.5 PTZ 149

5.6 Image/Relay-out 151
5.6.1 Image 151
5.6.2 Relay output 151
5.6.3 Multiple-channel preview 151

5.7 WAN Login 152

5.8 Setup 154
5.8.1 Channel 154
5.8.2 Video and Audio 155
5.8.3 Network 160
5.8.4 Event 172
5.8.5 Storage 181
5.8.6 System 186
5.8.7 Advanced 200
5.8.8 Information 202

5.9 Search 204

5.10 Alarm 207

5.11 Log out 208

5.12 Un-install Web Control 208

FAQ 209

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Welcome

Thank you for purchasing the **32 channel Hybrid PRODC DVR**

This user's manual is designed to be a reference tool for the installation and operation of your system.

Here you can find information about the corresponding DVR's features and functions, as well as a detailed menu tree.

Before installation and operation please read the following safeguards and warnings carefully!

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Important Safeguards and Warnings

1．Electrical safety

- All installation and operation here should conform to your local electrical safety codes.
- We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.

2．Transportation security

- Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.

3．Installation

- Keep upwards. Handle with care.
- Do not apply power to the DVR before completing installation.
- Do not place objects on the DVR

4．Qualified engineers needed

- All the examination and repair work should be done by the qualified service engineers.
- We are not liable for any problems caused by unauthorized modifications or attempted repair.

5．Environment

- The DVR should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc.
- This series product shall be transported, storage and used in the environment ranging from 0℃ to 55 ℃

6. Accessories

- Be sure to use all the accessories recommended by manufacturer.
- Before installation, please open the package and check all the components are included.
- Contact your local retailer ASAP if something is broken in your package.

7. Lithium battery

- Improper battery use may result in fire, explosion, or personal injury!
- When replace the battery, please make sure you are using the same model!

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1. Features and specifications

1.1. Overview

The Hybrid PRO-DC series DVR allows you to combine both analogue and digital signal formats in an exceptionally versatile CCTV surveillance monitoring system.

This series product is an excellent digital monitor product designed for security field. It adopts embedded Linux OS to maintain reliable operation. Popular H.264 compression algorithm and G.711 audio compression technology gives you high quality and a low a bandwidth bit stream. Unique frame by frame play function is suitable for detail analysis. It has various functions such as record, playback, monitor simultaneously and can guarantee audio video synchronisation. This series product uses advanced technology to provide a strong network data transmission function.

This series device adopts an embedded design to achieve high security and reliability. Whilst allowing you to operate the device at the local end, it can at the same time, when using it with the professional surveillance software (PSS) program (available to download from our website **www.adata.co.uk)** you will be able to remotely connect to your security network and monitor it from anywhere in the world with a connection to the Internet.

1.2 Features

This series product has the following features:

- **Analog & digital mixed input:** Supports both analog and digital signal formats simultaneously. Also able to connect to a multiple-channel high definition IPC.

- **Real-time monitoring:** It has a selection of data communication ports including analog output, VGA, and HDMI ports. You can use a monitor or display device to view any footage from the cameras connected to the DVR. The System supports TV/VGA/HDMI output at the same time.

- **Storage function:** Uses a special data format to guarantee data security and can avoid vicious data modification.

- **Compression format:** Supports multiple-channel audio and video. Independent hardware decodes the audio and video signal from each channel to maintain video and audio synchronisation.

- **Backup function:** Supports a backup function via the USB port (such as flash disk, portable HDD, burner, etc). Client-end user can download the file to local HDD to backup via network.

- **Record playback function:** Supports independent real-time record on each channel, and at the same time it can support search, forward play, network monitor, record search, download, etc. There are various playback modes you can also use: slow play, fast play, backward play and frame by frame play. Supports time title overlay so that you can view event with an

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accurately displayed time. When you want to focus on a specific area of the video footage you can use specified zone enlargement function to zoom into it for more detail.

- **Network operation:** Support network remote real-time monitor, remote record search and remote PTZ control.

- **Alarm activation function:** Several relay alarm outputs are provided for the DVR configure alarm activation and on-site light control. The alarm input and outputs ports have a protection circuit to guarantee device safety from unstable electrical currents.

- **Communication ports:** The RS485 port can allow you to control the connected alarms and PTZ via the user interface on the DVR. The RS232 port can allow a keyboard to be connected to the DVR so you can centrally control devices that are setup upon the network, and can also connect to PC COM interface to perform system upgrades, general maintenance, or matrix control. The standard Ethernet port can allow network access for remote viewing and control. Dual Ethernet ports support configuration modes such as multiple accesses (includes fault-tolerance and load balancing).

- **PTZ control:** Supports RS485 PTZ decoding and various decode protocols to allow the DVR to control the speed dome.

- **Intelligent operation:** Mouse operation function**.**

- **UPnP:** This isto establish the mapping relationship between the LAN and the WAN via the UPnP protocol.

1.3 Specifications

	Parameter	**32 - channel**
System	Main Processor	High-performance industrial embedded micro controller
	OS	Embedded LINUX
	System Resources	Multiplex operations: Multiple-channel record, multiple-channel playback and network operation simultaneously
	Interface	User-friendly graphical user interface
	Input Devices	Front panel, USB mouse, remote control
	Input Method	Arabic number, English character, donation and extension Chinese (optional)
	Shortcut Function	Copy/paste operation, USB mouse right-key shortcut menu, double click USB mouse to switch screen.
Compression Standard	Video Compression	H.264
	Audio Compression	G.711A
	Video Input	32-CH composite video input: (NTSC/PAL) BNC ($1.0V_{P-P,}$ 75Ω)

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Video monitor	Video Output	• 1-ch PAL/NTSC, BNC (1.0VP- P, 75Ω) composite video signal output. • 1-ch VGA output. • 2-ch HDMI output – HDMI Port1 has the same video source as the VGA and BNC ports. HDMI Port2 is the HD aux output of the Analog channel. • 1-ch Matrix output Support TV/VGA/HDMI/SPOT OUT video output at the same time.
	Video Standard	PAL (700TVL 50f/s) NTSC (700TVL 60f/s)
	Record Speed	Real-time Mode: PAL 1f/s to 25f/s per channel and NTSC 1f/s to 30f/s per channel
	Video Partition	1/4/9 /16 /25/36 windows
	Monitor Touring	Supports monitor tour functions such as alarm, motion detection, and schedule auto control.
	Resolution (PAL/NTSC)	PAL/NTSC Real-time monitor： D1 960×576/960×480
		Playback： 960H: 960x576/960x480 D1: 704×576/704×480, HD1: 352x576/704x480 2CIF: 704x288/704x240 CIF 352×288/ 352×240 , QCIF 176×144/176×120
		Support dual streams. Extra stream resolution: CIF 352×288/352x240 QCIF 176x144 / 176x120
	Image Quality	6-level image quality (Adjustable)
	Privacy mask	Support one privacy mask of user-defined size in full screen. Support max 4 zones.
	Image Information	Channel information, time information and privacy mask zone.
	TV Adjust	Adjust TV output zone suitable to anamorphic video.
	Channel Lock	Cover secret channel with black screen though system is encoding normally. Screen-lock function to prevent unauthorized user seeing secret video.
	Channel Information	Channel name, recording status, screen lock status, video loss status and motion detection status are shown on the bottom left of display screen.
	Color Configuration	Hue, brightness, contrast, saturation and gain setup for each channel.
Audio	Audio Input	16 Channel 200-2000mV 10KΩ（BNC）
	Audio Output	1-ch audio output 200-3000mv 5KΩ (RCA)
	Bidirectional Audio	1-ch audio talk input 200-3000mv 10KΩ（BNC） 1-ch audio talk output 200-3000mv 5KΩ(BNC)
Hard disk	Hard Disk	8 built-in SATA port. Support 8 HDDs.
	Hard Disk Occupation	Audio：G711 27.5MByte/h Video：56-900MByte/h

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Record and playback	Recording Mode	Manual recording, motion detection recording, schedule recording and alarm recording Priority: Manual recording> alarm recording>motion detection recording>schedule recording.
	Recording Length	1 to 120 minutes single record duration (Default setup is 60 minutes)
	Playback Repeat Way	When hard disk is full, system can overwrite previous video file.
	Record Search	Various search engines such as time, type and channel.
	Playback Mode	Various fast play, slow play speeds, manual frame by frame playback and reverse play mode.
	Various File Switch Ways	Can switch to previous or next file or any file in current play list. Can switch to file on other channel of the same time. (If there is a file) Support file continuous play, when a file is end system auto plays the next file in the current channel
	Multi-channel Playback	Support 1/4/9/16-channel modes
	Window Zoom	Switch between self-adaptive screen/full screen when playback
	Partial Enlargement	When in one-window full-screen playback mode, you can select any zone to activate partial enlargement function.
Backup function	Backup Mode	HDD backup
		Support peripheral USB backup device. (Flash disk, portable disk, USB burner and etc.)
		Support peripheral eSATA backup device.
		Support network download and backup
Network Function	Network control	View monitor channel remotely.
		DVR configuration through client-end and web browser
		Upgrade via client or browser to carry out remote maintenance.
		View alarm information such as external alarm, motion detection and video loss via client.
		Supports network PTZ lens control
		File download backup and playback
		Multiple devices share information via corresponding software such as professional surveillance software (PSS)
		Duplex transparent COM
		Network alarm input and output
		Bidirectional audio.
Motion Detection and Alarm	Motion Detection	Zone setup: support 396((PAL 22×18, NTSC 22×15)) detection zones. Various sensitivity levels. Alarm can activate record or external alarm or screen message prompt.
	Video Loss	Alarm can activate external alarm or screen message prompt.
	External Alarm	Supports record activation function or activate external alarm or screen message in specified period.
	Manual Alarm Control	Enable or disable alarm input channel Simulate alarm signal to specific alarm output channel.
	Alarm Input	16-ch alarm input（You can set normal open or normal close type to select the alarm type.）
	Alarm Output	6-channel relay output, including one controllable DC +12V output port.
	Alarm Relay	30VDC 2A，125VAC 1A（activation alarm）
Interface	USB Interface	4 x USB 2.0 ports. (Maximum rated current 800Ma)
	Network connection	2 x RJ45 10M/100M/1000M self-adaptable Ethernet port
	RS485	PTZ control port Support various PTZ control protocols.

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	RS232	Ordinary COM (Debug),keyboard connection and transparent serial port(COM input and output via network)
System Information	Hard Disk Information	Display HDD current status
	Data Stream Statistics	Data stream statistics for each channel (in wave mode)
	Log statistics	Backup to 1024 log files. Support various search engines such as time and type.
	Version	Display version information: channel amount, alarm input and output amount, system version and release date.
	On-line user	Display current on-line user
User Management	User Management	Multi-lever user management; various management modes Integrated management for local user, serial port user and network user. Configurable user power.
		Support user /group and its corresponding rights modification. No limit to the user or group amount.
	Password Authentication	Password modification Administrator can modify other user's password.
		Account lock strategy Five times login failure in thirty minutes may result in account lock.
Upgrade		Web browser, client-end and update tool.
Login, Logout and Shutdown		Password login protection to guarantee safety
		User-friendly interface when login. Provide the following options: Logout /shutdown/ restart.
		Right authentication when shut down to make sure only those proper people can turn off DVR
General Parameter	Power	AC90~264V 50+2% Hz （Max 220W）
	Power Consumption	25W (Excluding HDD)
	Working Temperature	0℃－＋55℃
	Working Humidity	10%－90%
	Air Pressure	86kpa－106kpa
	Dimension	2U standard industrial case. 440(W) x460 (D) x89mm(H)
	Weight	6.5-7.5KG (Excluding HDD)
	Installation Mode	Desktop/rack installation

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2 Overview and Controls

This section provides information about front panel and rear panel. When you install this series DVR for the first time, please refer to this part first.

2.1 Front Panel

The front panel is shown as shown in Figure 2-1 below.

Figure 2-1

Please refer to the following sheet for front panel button information.

Name	Icon	Function
Power button		Power button, press this button for three seconds to boot up or shut down DVR.
Number button	0-9	Input Arabic number Switch channel
Input number more than 10	-/--	If you want to input a number more than 10, please click this button and then input.
Shift		In textbox, click this button to switch between numeral, English(Small/Capitalized),donation and etc.
		Enable or disable tour.
Up/ Down	▲、▼	Activate current control, modify setup, and then move up and down.
		Increase/decrease numeral.
		Assistant function such as PTZ menu.
Left/ Right	◄ ►	Shift current activated control, and then move left and right.
		When playback, click these buttons to control playback bar.
ESC	ESC	Go to previous menu, or cancel current operation.
		When playback, click it to restore real-time monitor mode.
	ENTER	Confirm current operation

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Enter		Go to default button
		Go to menu
Record	REC	Manually stop/start recording, working with direction keys or numeral keys to select the recording channel.
Slow play		Multiple slow play speeds or normal playback.
Assistant	Fn	One-window monitor mode, click this button to display assistant function: PTZ control and image color.
		Backspace function: in numeral control or text control, press it for 1.5seconds to delete the previous character before the cursor.
		In motion detection setup, working with Fn and direction keys to realize setup.
		In text mode, click it to switch between numeral, English character(small/capitalized) and etc.
		In HDD management interface, you can click it to switch HDD record information and other information (Menu prompt)
		Realize other special functions.
Fast play		Various fast speeds and normal playback.
Play previous		In playback mode, playback the previous video
Reverse/Pause		In normal playback or pause mode, click this button to reverse playback In reverse playback, click this button to pause playback.
Play Next		In playback mode, playback the next video In menu setup, go to down ward of the dropdown list.
Play/Pause		In normal playback click this button to pause playback In pause mode, click this button to resume playback.
Window switch	**Mult**	Click it to switch one-window/multiple-window.
Shuttle(outer ring)		In real-time monitor mode it works as left/right direction key. Playback mode, counter clockwise to forward and clock wise to backward.
Jog(inner dial)		Up/down direction key. Playback mode, turn the inner dial to realized frame by frame playback. (Only applies to some special versions.)
USB port		To connect USB storage device, USB mouse.

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Remote control indication light	ACT	Remote control indication light
Status indication light	Status	If there is Fn indication light, current status indication light is null.
Power indication light	PWR	Power indication light
Record light	1-32	**For 4/8/16-channel series** It becomes on when system is recording. **For 32-channel series** When the light flashes slowly, it means the corresponding channel of 1-16 channel is recording now. When the light flashes fast, it means the corresponding channel of 17-32 channel is recording now. When the light becomes on, It means the corresponding 2-channel is recoding now.
IR Receiver	IR	This isto receive the signal from the remote control.

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2.2 Rear Panel

The 32-channel series DVR rear panel is shown as below. See Figure 2-2.

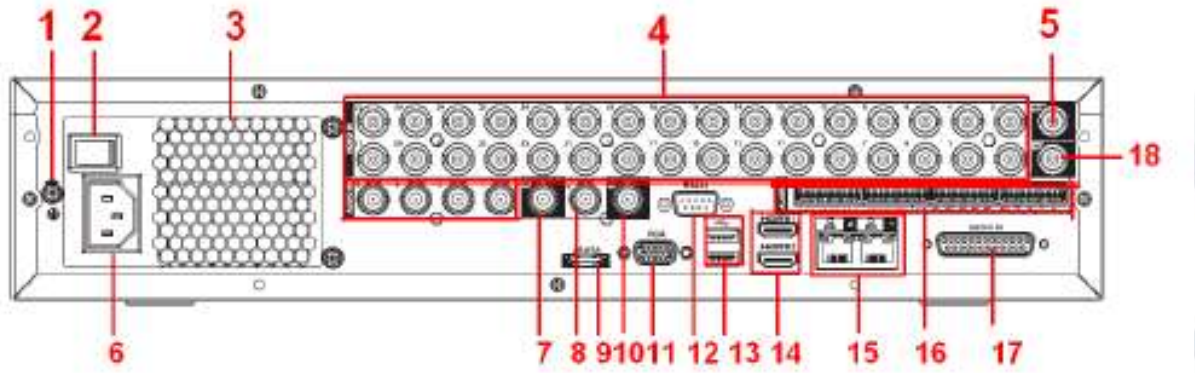

Figure 2-2

Please refer to the following sheet for detailed information:

SN	NAME	FUNCTION
1	GND	Ground port
2	Power switch	Power on/off
3	Fan	Circulates air inside device to reduce operating temperature to safe levels.
4	VIDEO IN	1-32 channel video Input
5	VIDEO OUT	Connect to visual display unit
6	Power port	Connect to power source
7	AUDIO OUT	Audio output port
8	MIC IN	Bidirectional input port for microphones or audio pickup sensor.
9	eSATA port	External HDD port
10	MIC OUT	Bidirecetional audio analogue port to transfer/broadcast audio from microphone.
11	VGA	Analogue video port for video display device
12	RS232 port	For use to debug the COM or to configure IP address or to transfer transparent COM data.
13	2.0 USB ports	Connect mouse
14	HDMI1 & HDMI2	High Definition Media Interface – HD video output ports to display video information on a HD Monitor.
15	Ethernet Network Port	1000M Ethernet port
16	Alarm input port1 - 16	• There are four groups. The first group is from port 1 to port 4, the second group is from port 5 to port 8, the third group is from port 9 to port 12, the fourth group is from port 13 to port 16. They are to receive the signal from the external alarm source. There are two types; NO (normal open)/NC (normal close). • When your alarm input device is using external power, please make sure the device and the NVR have the same ground.

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	NO1~NO5 – Alarm output port C1~C5 – Alarm output port NC5 – Alarm output port	• 5 groups of alarm output ports. (Group 1: port NO1～C1, Group 2: port NO2 ～C2, Group 3: port NO3～C3. 4: port NO4 ～ C4. 5: port NO5 ～ C5). Output alarm signal to the alarm device. Please make sure there is power to the external alarm device. • NO: Normal open alarm output port. • C: Alarm output - public end.
	A – RS485 Communication Port	RS485_A port. This iscable A. You can connect a PTZ speed dome so you can control it.
	B – Communications Port	RS485_B port. This iscable B. You can connect a PTZ speed dome so you can control it.
17	AUDIO IN	Audio input port – DB25 port (input audio from channels 5 to 16)
18	SPOT OUT	Video Matrix output port – SPOT output. Supports 1-window standard definition matrix output.

When connect the Ethernet port, please use crossover cable to connect the PC and use the straight cable to connect to the switcher or router.

2.3 Connection Sample

Please refer to Figure 2-3 for connection sample.

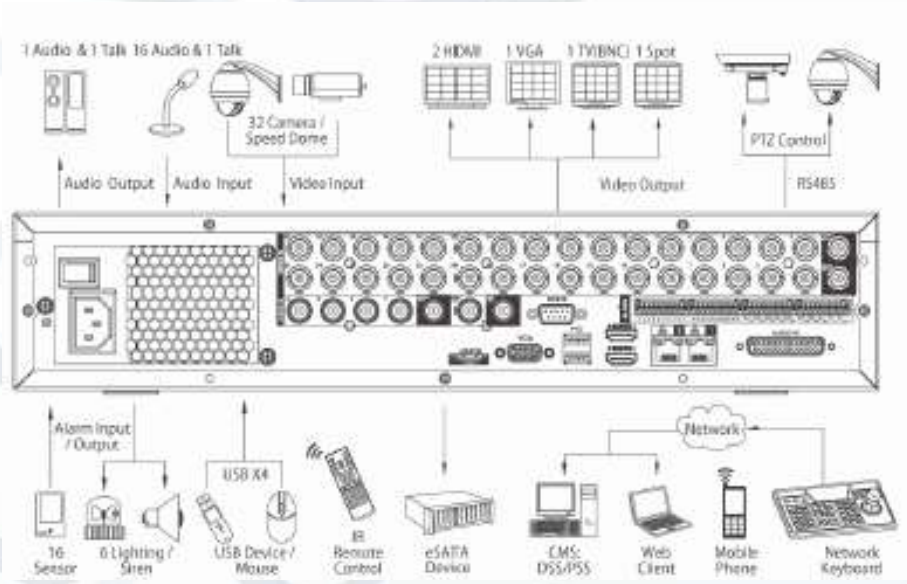

Figure 2-3

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2.4 Mouse Control

<table>
<tr><td rowspan="8">Left click mouse</td><td>System pops up password input dialogue box if you have not logged in.
In real-time monitor mode, you can go to the main menu.</td></tr>
<tr><td>When you have selected one menu item, left click mouse to view menu content.</td></tr>
<tr><td>Implement the control operation.</td></tr>
<tr><td>Modify checkbox or motion detection status.</td></tr>
<tr><td>Click combo box to pop up drop down list</td></tr>
<tr><td>In input box, you can select the input methods. Left click the corresponding button on the panel you can input numeral/English character (small/capitalized). Here ← stands for backspace button. __ stands for space button.

In English input mode: _stands for input a backspace icon and ← stands for deleting the previous character.

In numeral input mode: _ stands for clear and ← stands for deleting the previous numeral.

When input special sign, you can click corresponding numeral in the front panel to input. For example, click numeral 1 you can input“/” , or you can click the numeral in the on-screen keyboard directly.
 </td></tr>
<tr><td rowspan="2">Double left click mouse</td><td>Implement special control operation such as double click one item in the file list to playback the video.</td></tr>
<tr><td>In multiple-window mode, double left click one channel to view in full-window. Double left click current video again to go back to previous multiple-window mode.</td></tr>
</table>

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<table>
<tr><td rowspan="2">Right click mouse</td><td>In real-time monitor mode, pops up shortcut menu: one-window, four-window, nine-window and sixteen-window, Pan/Tilt/Zoom, color setting, search, record, alarm input, alarm output, main menu.
Among which, Pan/Tilt/Zoom and color setting applies for current selected channel.
If you are in multiple-window mode, system automatically switches to the corresponding channel.
</td></tr>
<tr><td>Exit current menu without saving the modification.</td></tr>
<tr><td rowspan="3">Press middle button</td><td>In numeral input box: Increase or decrease numeral value.</td></tr>
<tr><td>Switch the items in the check box.</td></tr>
<tr><td>Page up or page down</td></tr>
<tr><td>Move mouse</td><td>Select current control or move control</td></tr>
<tr><td rowspan="2">Drag mouse</td><td>Select motion detection zone</td></tr>
<tr><td>Select privacy mask zone.</td></tr>
</table>

2.5 Virtual Keyboard & Front Panel

2.5.1 Virtual Keyboard

The system supports two input methods: numeral input and English character (small and capitalised) input.

Move the cursor to the text column, the text is shown as blue, input button pops up on the right. Click that button to switch between numeral input and English input (capitalised and small), Use > or < to shift between small character and capitalised character.

2.5.2 Front Panel

Move the cursor to the text column. Click **Fn** key and use direction keys to select number you wanted. Please click enter button to input.

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3 Installation and Connections

Note: All the installation and operations here should conform to your local electric safety rules.

3.1 Check Unpacked DVR

When you receive the DVR from the forwarding agent, please check whether there is any visible damage. The protective materials used for the package of the DVR can protect most accidental clashes during transportation. Then you can open the box to check the accessories.

Please check the items in accordance with the list. Finally you can remove the protective film of the DVR.

3.2 About Front Panel and Real Panel

The model label in the front panel is very important; please check according to your purchase order.

The label in the rear panel is very important too. Usually we need you to represent the serial number when we provide the service after sales.

3.3 Connecting Power Supply

Please check if the input voltage and device power requirements match or not.

We recommend you use a UPS system to guarantee steady operation and to lengthen DVR and other peripheral equipment's such as cameras operational life span (please visit **www.adata.co.uk** for info on our UPS ranges).

3.4 Connecting Video Input and Output Devices

3.4.1 Connecting Video Input

The video input interface is BNC. The input video format includes: PAL/NTSC BNC（1.0V_{P-P}，75Ω.）.The video signal should comply with your national standards.

The input video signal should have a high SNR, low distortion; low interference, natural color and suitable lightness.

GUARANTEE THE STABILITY AND RELIABILITY OF THE CAMERA SIGNAL

The camera should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc.

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The camera and the DVR should have the same signal grounding to ensure the normal operation of the camera.

GUARANTEE STABILITY AND RELIABILITY OF THE TRANSMISSION LINE

Please use high quality, sound shielded BNC. Please select suitable BNC model according to the transmission distance.

If the distance is too long, you should use twisted pair cable, and you can add video compensation devices or use optical fiber to ensure video quality.

You should keep the video signal away from the strong electromagnetic interference, especially high tension current.

KEEP CONNECTION LUGS WELL CONNECTED

The signal line and shielded wire should be fixed firmly and have a decent connection. Avoid dry joint, lap welding and oxidation

3.4.2 Connecting Video Output

Video output includes a BNC (PAL/NTSC1.0V_{P-P}，75Ω）output, a VGA and HDMI output. System supports BNC, VGA and HDMI output at the same time.

When you are using pc-type monitor please pay attention to the following points:

- To defer aging, do not allow the pc monitor to run for a long time.
- Regular demagnetization will keep device well maintained.
- Keep it away from devices that produce strong electromagnetic interference.

Using a TV as video output device is not a reliable substitution method. You also need to reduce the working hours and control the interference from the power supply and other devices. The low quality TV may result in device damage.

3.5 Connecting Audio Input & Output, Bidirectional Audio

3.5.1 Audio Input

These series of product's audio input port adopt a BNC port. Due to high impedance of audio input, please use active sound pick-up (see Figure 3-1). Audio transmission is similar to video transmission. Try to avoid interference, dry joint, loose contact and it shoul be kept away from high tension current.

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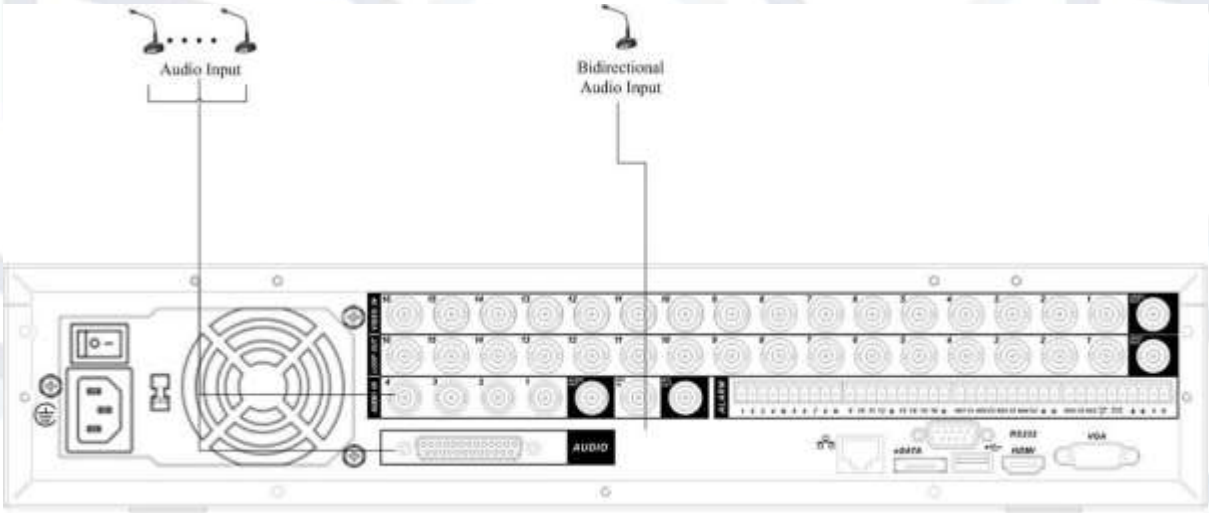

Figure 3-1

3.5.2 Audio Output

The audio output signal parameter is usually over 200mv 1KΩ (BNC). It can directly connect to a low impedance earphone, active sound box or amplifier-drive audio output device.

If the sound box and the pick-up cannot be separated spatially, This iseasy to arouse squeaking. In this case you can adopt the following measures:

- Use better sound pick-up with better directing property.
- Reduce the volume of the sound box.
- Using more sound-absorbing materials in decoration can reduce voice echo and improve acoustics environment.
- Adjust the layout to reduce happening of the squeaking.

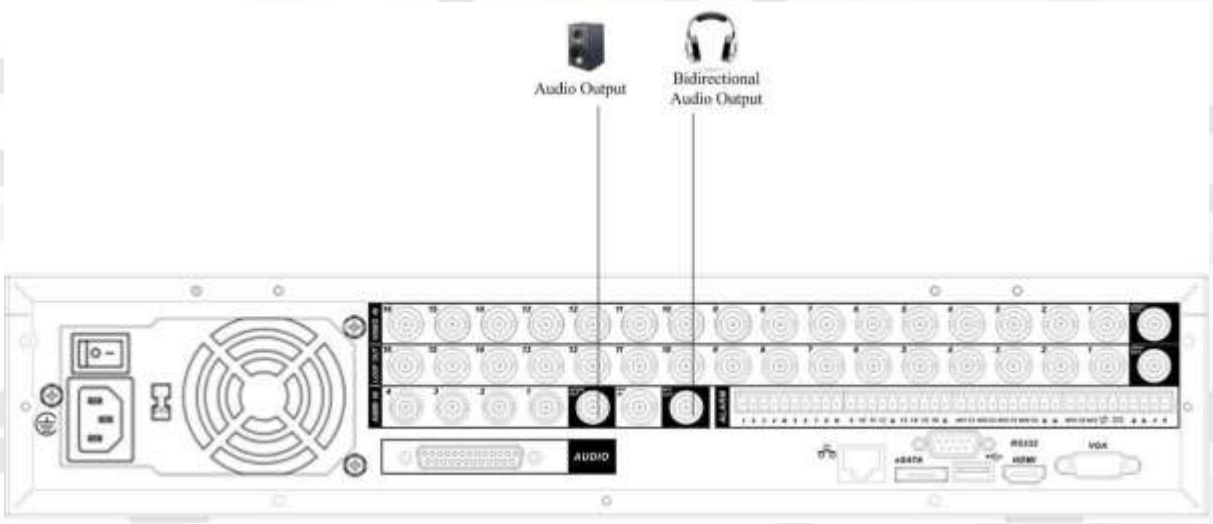

Figure 3-2

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3.6 Alarm Input and Output Connection

Please refer to the following sheet for alarm input and output connection. There are two alarm input types for you to select: normal open (NO) and normal close (NC).

1. Alarm input

a. Please make sure the alarm input mode is grounded alarm input.

b. Grounding signal is needed for alarm input.

c. Alarm input needs the low level voltage signal.

d. Alarm input mode can be either NC (normal Open) or NO (Normal Close)

e. When you are connecting two DVRs or you are connecting one DVR and one other device, please use a relay to separate them,

2. Alarm output

To avoid high current, which may result in relay damage, the alarm output port should not be connected to high power load directly (It should be less than 1Amp). Please use the co-contactor to make sure there is a connection between the alarm output port and the load.

3. How to connect PTZ decoder

a. Ensure the decoder has the same grounding as the DVR, otherwise you may not control the PTZ. Shielded twisted wire is recommended and the shielded layer is used to connect to the grounding.

b. Avoid high voltage. Ensure proper wiring and some surge protection measures.

c. For signal wires that are too long, 120Ω should be parallelly connected between A, B lines on the far end to reduce reflection and to guarantee signal quality.

d. “485 A, B” of DVR cannot parallelly connect with a “485 port” of other device.

e. The voltage between of A,B lines of the decoder should be less than 5V.

4. Please make sure the front-end device has been soundly earthed.

Improper grounding may result in circuit damage.

3.6.1 Alarm Input and Output Details

You can refer to the following sheet for alarm input and output information. For information on the 4 and 8 channel DVR port configurations please use the 16 channel port configuration as a guide.

Important:

Please refer to the specifications for the alarm input and output channel amount. Do not merely count the alarm input and out channel amount according to the ports on the rear panel.

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The 16-channel interface is shown as in Figure 3-3

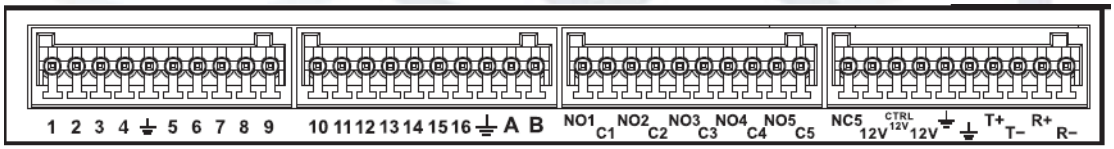

Figure 3-3

You can refer to the following sheet for alarm input and output information:

In the first line, from the left to the right,: 1，2，3，4，5，6，7，8，9，10，11，12，13，14，15，16	ALARM 1 to ALARM 16. The alarm becomes active in low voltage.
In the second line, from the left to the right: NO1 C1， NO2 C2， NO3 C3， NO4 C4, NO5 C5 NC5	The first four are four groups of normal open activation output (on/off button) NO5 C5 NC5 is a group of NO/NC activation output (on/off button)
CTRL 12V	Control power output. You need to close the device power to cancel the alarm.
+12V	This isexternal power input. Need the peripheral equipment to provide +12V power (below 1A).
⏚	Earth cable.
485 A/B	485 communication port. They are used to control devices such as PTZ. Please parallel connect 120TΩ between A/B cables if there are too many PTZ decoders.T
T+, T-, R+, R-	They are a four wire double duplex RS485 port T+ T-: Output wire R+ R-: Input wire

3.6.2 Alarm Input Port

Please refer to the following sheet for more information:

- Normal open or Normal close type.
- Please parallel connect COM end and GND end of the alarm detector (Provide external power to the alarm detector).
- Please parallel connect the Ground of the DVR and the ground of the alarm detector.
- Please connect the NC port of the alarm sensor to the DVR alarm input (ALARM)
- Use the same ground with that of DVR if you use external power to the alarm device.

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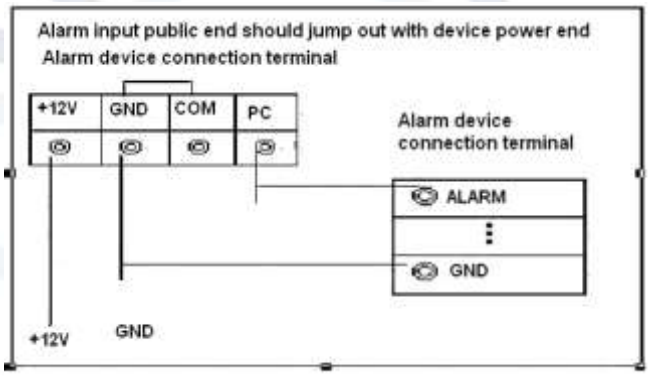

Figure 3-4

3.6.3 Alarm Output Port

- Provide power to peripheral alarm device.
- To avoid overloading, please read the following relay parameters sheet carefully.
- RS485 A/B cable is for the A/B cable of the PTZ decoder.
- They are a four wire double duplex RS485 port:
  - ✧ T+ T-: Output wire
  - ✧ R+ R-: Input wire

Relay Specification

Model:	**JRC-27F**	
Material of the touch	Silver	
Rating （Resistance Load）	Rated switch capacity	30VDC 2A, 125VAC 1A
	Maximum switch power	125VA 160W
	Maximum switch voltage	250VAC, 220VDC
	Maximum switch currency	1A
Insulation	Between touches with same polarity	1000VAC 1minute
	Between touches with different polarity	1000VAC 1minute
	Between touch and winding	1000VAC 1minute
Surge voltage	Between touches with same polarity	1500V (10×160us)
Length of open time	3ms max	
Length of close time	3ms max	
Longevity	Mechanical	50×106 times (3Hz)
	Electrical	200×103 times (0.5Hz)
Temperature	-40℃~+70℃	

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3.7 RS232

You can connect the DVR with POS or Keyboard through RS232.
With POS system, the DVR can communicate through RS232 and network. For the POS system, the DVR can integrate the text content and even search the record through the info.

The series DVR also support NKB operation. You can operate the DVR from the keyboard controls instead of using the control pad on the front panel of the unit.

To connect a NKB keyboard to the DVR:
1. Assemble the KBD keyboard according to the instructions in its accompanying installation manual.
2. Connect the KBD keyboard into one of the RS232 ports on the DVR or through network.

3.8 RS485

When the DVR receives a camera control command, it transmits that command up the coaxial cable to the PTZ device. RS485 is a single-direction protocol; the PTZ device can't return any data to the unit. To enable the operation, connect the PTZ device to the RS485 (A,B) input on the DVR. See Figure 3-8.

Since RS485 is disabled by default for each camera, you must enable the PTZ settings first. This series DVRs support multiple protocols such as Pelco-D, Pelco-P.

To connect PTZ devices to the DVR:

1. Connect RS485 A,B on the DVR rear panel (see Figure 3-5).
2. Connect the other end of the cable to the proper pins in the connector on the camera.
3. Please follow the instructions to configure a camera to enable each PTZ device on the DVR.

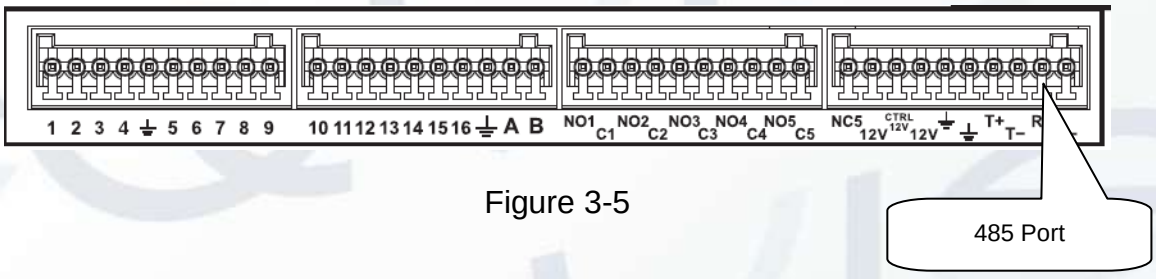

Figure 3-5

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4 Overview of Navigation and Controls

Before operation, please make sure:

- You have properly installed HDD and all the cable connections.
- The provided input power and the device power are matched.
- The external power should be DC 12V or AC90~264V 50+2% Hz.
- Always use the stable current, if necessary using a UPS system is one of the best alternative measures.

4.1 Login, Logout & Main Menu

4.1.1 Login

After system has booted up, system pops up the startup wizard, see Figure 4-1.

Figure 4-1

Click the Cancel button; you can go to the system login interface.

The system login interface is shown as in Figure 4-2.

System consists of four accounts:

- **Username:** admin. **Password:** admin. (administrator, local and network)
- **Username:** 888888. **Password:** 888888. (administrator, local only)
- **Username:** 666666. **Password:** 666666 (Lower authority user who can only monitor, playback, backup and etc.)
- **Username**: default. **Password**: default (hidden user). Hidden user 'default' is for system use only and can not be deleted. When there is no login user, hidden user 'default' is the automatic login user name & password. You can set some rights (such as monitor) for this user so that you can view some video channel views without fully logging in.

You can use USB mouse, front panel, or keyboard to input.

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Input method: Click the image of the keyboard to switch between numeral, English character (small/capitalized) and denotation.

Note: For security reason, please modify password after you first login.

Failure to login in after three attempts will result in the system alarm being triggered and after five failed logins the account will be locked!

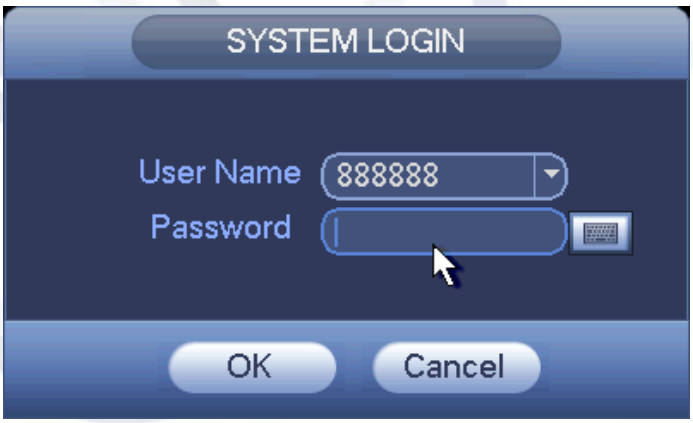

Figure 4-2

Click OK button, you can go to General interface. See Figure 4-3.

Figure 4.3

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Click Next button, you will then go to network interface. See Figure 4-4 for detailed information.

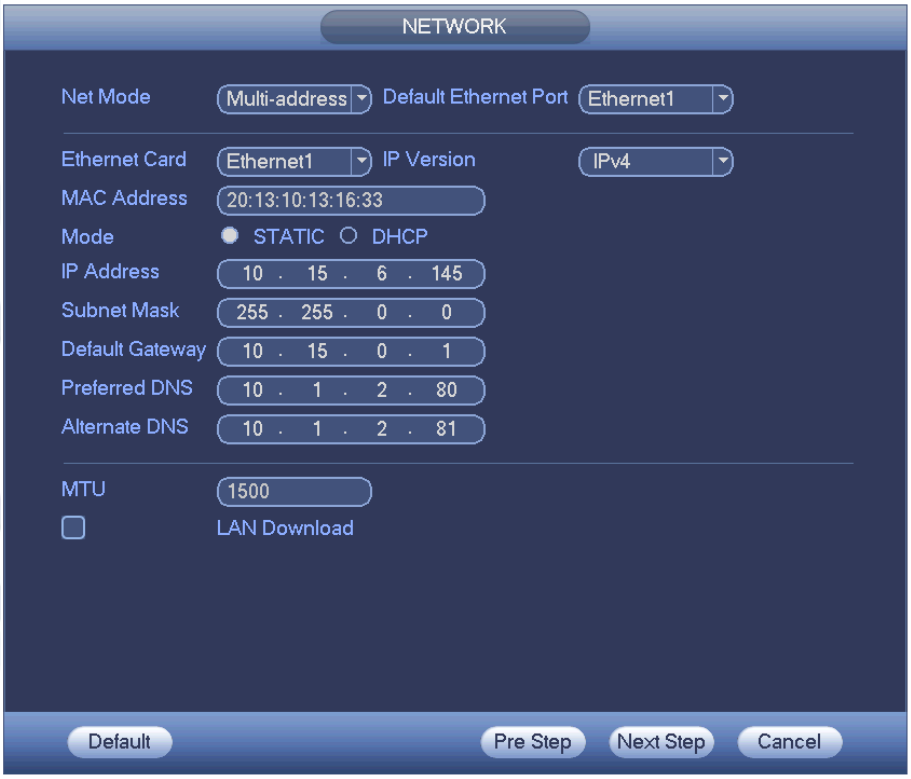

Figure 4-4

Click Next button, you will then go to Schedule interface. See Figure 4-5 for detailed information.

Figure 4-5

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Click Finish button, system will pop up a dialogue box. Click the OK button, the startup wizard will now be complete. See Figure 4-6.

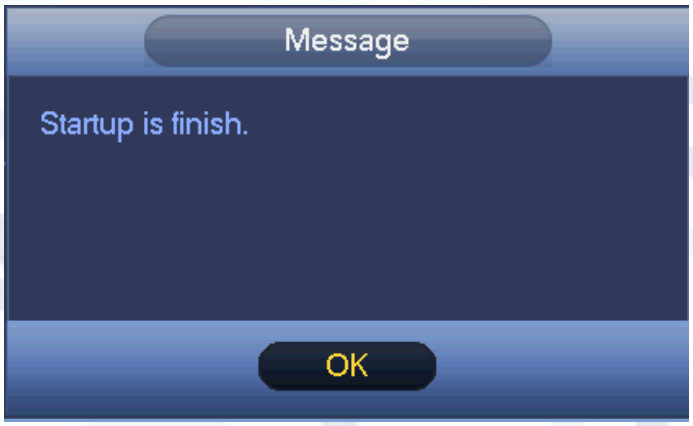

Figure 4-6

4.1.2 Auto Resume after Power Failure

The system can automatically backup video and resume previous working status after power failure.

4.1.3 Replace Button Battery

Please make sure to use the same battery model if possible.

We recommend replace battery regularly (e.g. after one-year) to guarantee system time accuracy.

Note: Before replacement, please save the system setup, otherwise, you may lose the data completely!

4.2 Live Viewing

After you have logged in, the system is in live viewing mode. You can see system date, time and channel name. If you want to change system date and time, you can refer to general settings (Main Menu->Setting->System->General). If you want to modify the channel name, please refer to the display settings (Main Menu->Camera->CAM name).

1		Recording status	3		Video loss
2		Motion detection	4		Camera lock

Tips

- Preview drag: If you want to change position of channel 1 and channel 16 when you are previewing, you can left click mouse in the channel 1 and then drag to channel 16, release mouse you can switch channel 1 and channel 16 positions.

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- Use mouse middle button to control window split: You can use mouse middle button to switch window split amount.

4.2.1 Preview Control

The preview control function has the following features:

- Support preview playback.
  - ✧ In the preview desktop, system can playback previous 5-60 minutes record of current channel. Please go to the Main Menu->General to set real-time playback time.
  - ✧ Supports drag and play function. You can use your mouse to select any playback start time.
  - ✧ Supports playback, pause and exit function.
  - ✧ At this point the system does not support slow playback and backward playback function.
- Support digital zoom function.
- Supports real-time backup function.
- Supports real-time backup function

You can follow the contents listed below for the operation instructions:

4.2.2 Preview control interface

Move you mouse to the top centre of the video of current channel, you will see that the system pops up the preview control interface. See Figure 4-7. If your mouse stays in this area for more than 6 seconds and has no operation, the control bar automatically hides.

Figure 4-7

You can refer to the following sheet for detailed information:

SN	Name	Function
1	Realtime playback	• This isto playback the previous 5-60 minutes record of current channel. • Please go to the Main Menu->Setting->System->General to set real-time playback time. • System may pop up a dialogue box if there is no such record in current channel.
2	Digital zoom	• This isto zoom into specified zone of current channel. It supports multiple channel zoom. • Click the button: and the button will then be shown like this:

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		Drag the mouse to select a zone(green box will appear), you can view an interface shown below: Put the curser at the centre of the zone you want to zoom in, hold down the scroll wheel and move the mouse.
3	Manual record function	This isto backup the video of current channel to the USB device. System cannot backup the video from multiple channels at the same time. • Click this button to start recording to USB device. • Click it again and the system stops recording. You will then be able to find the file on the USB device.
4	Manual Snapshot	Click this button to take a single frame snapshot of the video footage, up to 5 times. The snapshot will be saved to the USB device or HDD. You can go to the search interface to view
5	Mute	Click this button to mute audio. Click it again to enable the audio function when in preview. Please note this function is for one-window mode only.

4.3 Right Click Menu

On the preview interface, right click mouse, you can view menu interface shown as in Figure 4-8.

Tip: After you go to the corresponding interface, right click mouse to go back to the upper-level.

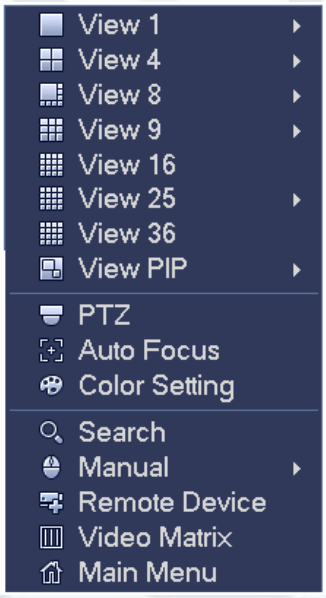

Figure 4-8

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4.3.1 Window Switch

System supports 1/4/8/916/25/36-window. You can select from the dropdown list. See Figure 4-9.

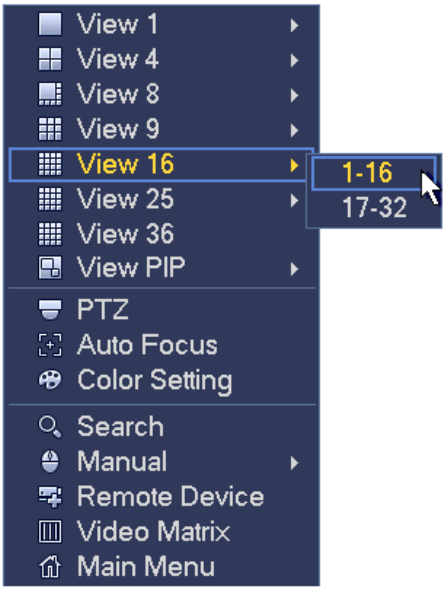

Figure 4-9

4.3.2 PIP

PIP stands for Picture-In-Picture, which is a function that allows you to have a smaller window, inside the main window-1, showing footage from another camera. The smaller window still supports playback, digital zoom, general play controls, etc.

- **Window switch**: Double click the small window, you can switch the position of the large window and the small window.
- **Small-window drag**: Left click the small window, you can drag it to any position you desire.
- **Digital zoom**: Move the mouse to the margin, you can drag to zoom in or out.

On the preview interface of the channel 1, right click mouse and then select channel 3, you can overlay video from channel 3 on the channel 1. See Figure 4-10 and Figure 4-11.

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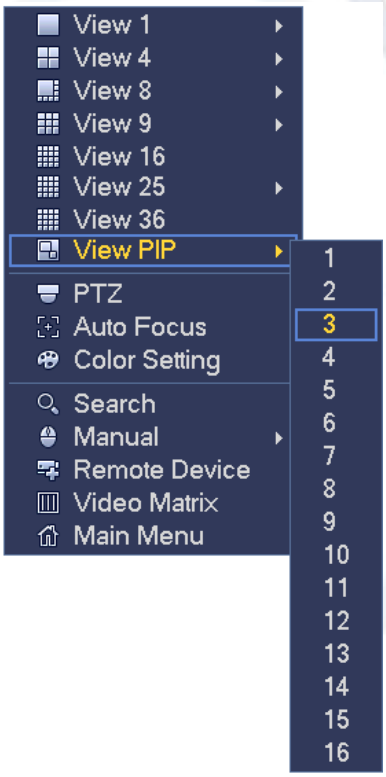

Figure 4-10

Figure 4-11

Go to the window-1 mode, on the navigation bar, click , you can see the video on the large window and the video from the next channel is the default video in the small window.

If you have set the PIP function, you can click to view the last edited PIP video.

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4.3.3 PTZ Control

The PTZ setup is shown in Figure 4-12. Please note, when the commend name is grey the device does not support this function. The PTZ operation is only valid in one-window mode.

Figure 4-12

Here you can control PTZ direction, speed, zoom, focus, iris, preset, tour, scan, pattern aux function, light and wiper, and rotation.

The 'Speed' option controls PTZ movement speed. The value ranges from 1 to 8. 8 is fastest speed and 1 is the lowest speed. You can use the remote control to select the small keyboard to set parameters.

You can also click and to zoom, focus, move the iris to zoom in and out, increase and decrease definition and brightness.

The PTZ rotation supports 8 directions. If you are using direction buttons on the front panel, there are only four directions: up/down/left/right.

In the middle of the eight direction arrows, there is a 3D intelligent positioning key. See Figure 4-13. Please make sure your protocol supports this function and you need to use mouse to control. Click this key, system goes back to the single screen mode. Drag the mouse in the screen to adjust section size. The dragged zone supports 4X to 16X speeds. It can detect the PTZ automatically. The smaller the zone you drag, the higher the speed.

Figure 4-13

NAME	FUNCTION KEY	FUNCTION	SHORTCUT KEY	FUNCTION KEY	FUNCTION	SHORTCUT KEY
Zoom		Zoom out			Zoom in	>>
Focus		Focus out	|<		Focus in	>|
Iris		Close Iris	||<		Open Iris	>||

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In Figure 4-12, click to open the menu, you can set preset, tour, pattern, scan, etc See Figure 4-14.

Figure 4-14

Please refer to the following sheet for detailed information.

Please note the above interface may vary due to different protocols. If the button is grey it cannot be selected once the current function is null.

Right click mouse or click the ESC button at the front panel to go back to the Figure 4-12.

Icon	Function	Icon	Function
	Preset		Flip
	Tour		Reset
	Pattern		Aux
	Scan		Aux on-off button
	Rotate		Go to menu

- PTZ Function Setup

Click , you will get to the following interface to set the preset, tour, pattern and scan. See figure 4-15.

Figure 4-15

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Preset Setup

In Figure 4-15, click preset button and use eight direction arrows to adjust camera to the proper position. The interface is shown as in Figure 4-16.

Click Set button and then input preset number.

Click Set button to save current preset.

Figure 4-16

Tour Setup

In Figure 4-15, click tour button.

Input tour value and preset No. Click Add preset button to add current preset to the tour. See Figure 4-17.

Tip: Repeat the above steps to add more presets to the tour. Click Del preset button to remove it from the tour. Please note some protocols do not support delete preset function.

Figure 4-17

Pattern Setup

In Figure 4-17, click Pattern button and input pattern number.

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Click Begin button to start direction operation. Or you can go back to Figure 4-14 to operate zoom/focus/iris/direction operation.

In Figure 4-18, click End button.

Figure 4-18

Scan Setup

In Figure 4-19, click Scan button.

Use direction buttons to set camera left limit and then click Left button.

Use direction buttons to set camera right limit and then click Right button. Now the scan setup process is complete.

Figure 4-19

Call PTZ Function

Call Preset

In Figure 4-14, input preset value and then click to call a preset. Click it again to stop call.

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Call Pattern

In figure 4-14, input the pattern value and then click to call a pattern. Click it again to stop call.

Call Tour

In Figure 4-14, input the tour value and then click to call a tour. Click again to stop call.

Call Scan

In Figure 4-14, input scan value and then click to call a tour. Click again to stop call.

Rotate

In Figure 4-14, click to enable the camera to rotate. System supports preset, tour, pattern, scan, rotate, light functions.

Note:

- Preset, tour and pattern all need the value to be the control parameters. You can define it as you require.
- You need to refer to your camera user's manual for Aux definition. In some cases, it can be used for a special process.

Aux

Click and the system goes to the following interface. The options here are difined by the protocol. The aux number is corresponding to the aux on-off button on the decoder. See Figure 4-20.

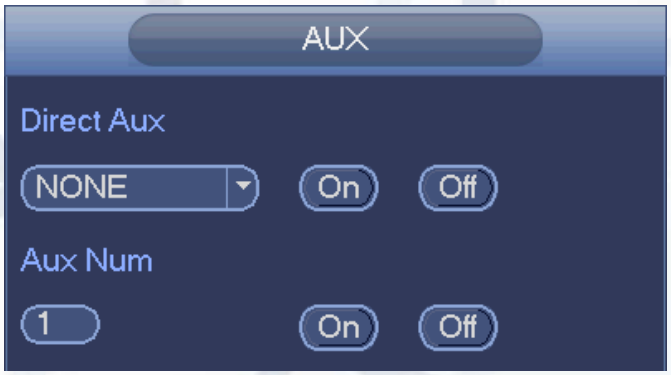

Figure 4-20

4.4.4 Colour

Here you can set hue, brightness, contrast, saturation, gain, white level, color mode and etc. See Figure 4-21.

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Figure 4-21

Please refer to the following sheet for detailed information:

Item	Note
Period	There are two periods in one day. You can set different sharpness, brightness, and contrast setup for the different periods.
Effective Time	Check the box here to enable this function and then set period time.
Sharpness	• The value here is to adjust the edge of the video. • The value ranges from 0 to 100. The larger the value is, the clearer the edge is and vice versa. • Please note there will be image noise if the value is too high. The default value is 50 and the recommended value ranges from 40 to 60.
Brightness	• This isto adjust monitor window brightness. The value ranges from 0 to 100. The default value is 50. • The larger the number, the brighter the video is. • When you input the value here, the brightness and the dark sections of the video will be adjusted accordingly. You can use this function when the whole video is too dark or too bright.

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	• Please note the video may become hazy if the value is too high. The recommended value ranges from 40 to 60.
Contrast	• This isto adjust monitor window contrast. The value ranges from 0 to 100. The default value is 50. • The larger the number, the higher the contrast is. You can use this function when the whole video brightness is OK but the contrast is not totally correct. • Please note the video may become hazy if the value is too low. If this value is too high, the dark section may lack brightness while the bright section may over exposure .The recommended value ranges from 40 to 60.
Saturation	• This isto adjust monitor window saturation. The value ranges from 0 to 100. The default value is 50. • The larger the number, the strong the color is. • This value has no effect on the general brightness of the whole video. The video color may become too strong if the value is too high. For the grey part of the video, the distortion may occur if the white balance is not accurate. • Please note the video may not be attractive if the value is too low. The recommended value ranges from 40 to 60.
Gain	The gain adjust is to set the gain value. The default value may vary due to different device models. The smaller the value, the lower the noise. But the brightness is also too low in the dark environments. It can enhance the video brightness if the value is high. But the video may become too noisey.
Colour Mode	It includes several modes such as standard, color, bright, gentle. Select a color mode, the sharpness, brightness, contrast, etc. can automatically switch to corresponding setup.

4.5 Navigation Bar

You need to go to the Main menu->Setting->System->General to enable navigation bar function; otherwise you can not see the following interface.

The navigation bar is shown as below. See Figure 4-22.

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Figure 4-22

4.51 Main Menu

Click button to go to the main menu interface.

4.5.2 Output Screen

Select corresponding window-split mode and output channels.

4.5.3 Favorites

Click , system pops up the following interface. See Figure 4-23. Click one item, you can view saved favorite channel split mode and channel number. Please note, right now the favorite scheme names are after the window split mode.

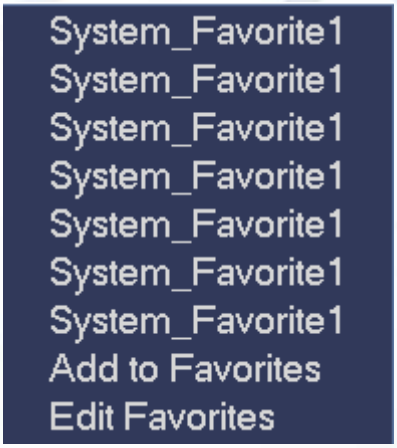

Figure 4-23

In Figure 4-23, click Add to favorites; you will see the following interface. See Figure 4-24. Here you can input a customised favorites name. System supports a maximum of 31-characters. Click OK button, you can save current favorites name.

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Figure 4-24

In Figure 4-23, click Edit favorites; you can see an interface shown as in Figure 4-25. Check the corresponding box and then select Delete. You will now be able to remove specified item(s).

Figure 4-25

Double click a name; you can change its name. See Figure 4-26. Input a new name and then click OK button.

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Figure 4-26

4.5.4 Channel Tree

This isto set channel setup. The interface is shown as below. See Figure 4-27.

Figure 4-27

The one level includes 16 channels. See Figure 4-28.
You can left click to select a channel on the tree and then drag it to the preview window on the left pane. Once the channel is on the preview window, the channel number on the channel tree becomes grey and becomes null (can not be selected).

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Figure 4-28

4.5.5 Tour

Click Button to enable tour, the icon becomes , you will see the tour is in process.

4.5.6 PTZ

Click , the system will go to the PTZ control interface.

4.5.7 Colour

Click button , the system will go to the colour interface.

4.5.8 Search

Click button , the system wil go to the search interface.

4.5.9 Alarm Status

Click button , the system will go to the status interface. This isto view the device's and channel's status.

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4.5.10 Channel Info

Click button , system will go to the channel information setup interface. This isto view information of the corresponding channel. See Figure 4-29.

CHANNEL INFO
Channel Motion Video Loss Tampering Record Status Record Mode Resolution Frame Rate Bit Rate(K
1 Manual 960*576 25 95
2 Regular 960*576 25 23
3 Regular 960*576 25 95
4 Regular 960*576 25 69
5 Regular 960*576 25 23
6 Regular 960*576 25 70
7 Regular 960*576 25 68
8 Regular 960*576 25 70
9 Regular 960*576 25 70
10 Regular 960*576 25 120
11 Regular 960*576 25 69
12 Regular 960*576 25 71
13 Regular 960*576 25 71
14 Regular 960*576 25 70
15 Regular 960*576 25 70
16 Regular 960*576 25 71
17 Regular 1920*1080 25 8071
18 Regular 1280*960 25 4062
19 Regular 1280*720 30 0
Refresh

Figure 4-29

4.5.11 Remote Device

Click button , system will go to the remote device interface.

4.5.12 Network

Click button , system will go to the network interface. This isto set network IP address, default gateway, etc.

4.5.13 HDD Manager

Click button , system will go to the HDD manager interface. This isto view and manage HDD information.

4.5.14 USB Manager

Click button , system will go to the USB manager interface. This isto view USB information, backup video, and to update.

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4.6 USB Device Auto Pop-up

After you inserted the USB device, system can auto detect it and pop up the following dialogue box. It allows you to conveniently backup file, log, configuration or update system. See Figure 4-32.

Figure 4-30

4.7 Main Menu

The main menu interface is shown as below. See Figure 4-31.

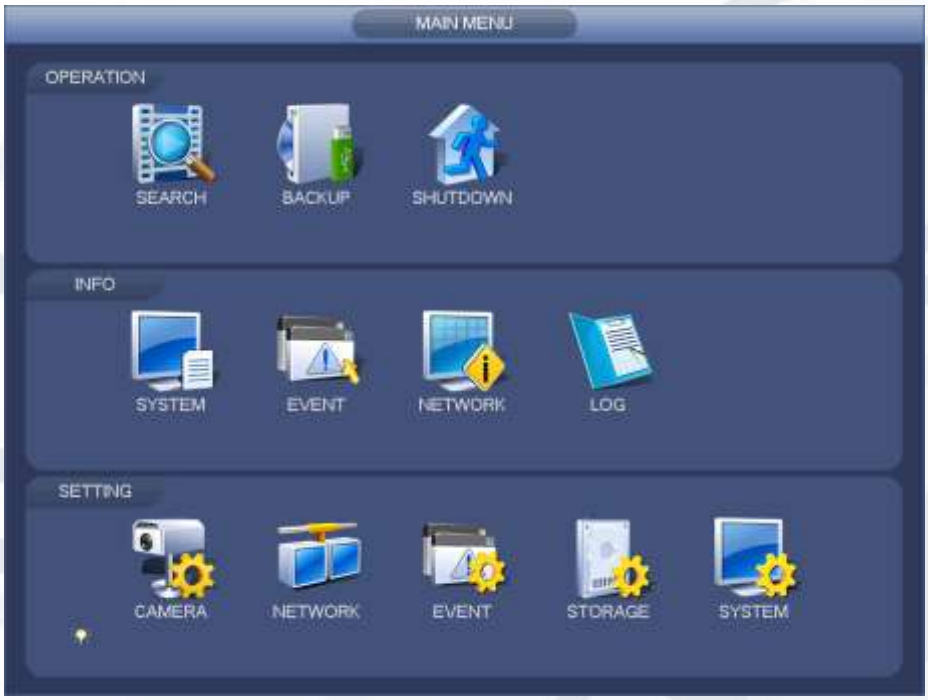

Figure 4-31

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4.8 Operation

4.8.1 Search

Click the search button in the main menu, search interface is shown below. See Figure 4-32.
Usually there are three file types:

- R: Regular recording file.
- A: External alarm recording file
- M: Motion detection recording file

Figure 4-32

SN	Name	Function
1	Display Window	• Displays the searched picture or file • Supports 1/4/9/16 – window playback
2	Search Type	• Select to search the picture or the recorded file. • You can select to play from the read-write HDD, from peripheral device or from the redundancy HDD. • Before you select to play from the peripheral device, please connect the corresponding peripheral device. You can view all record files of the root directory of the peripheral device. Click the Browse button; you can select the file you want to play. **Important:** **Redundancy HDD does not support picture backup function, but it supports picture playback function. You can select to play from redundancy HDD if there are pictures on the redundancy HDD.**
3	Calender	• The blue highlighted date means there is picture or file. Otherwise, there is no picture or file.

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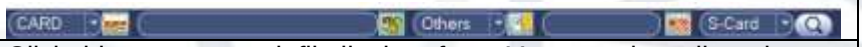
		• In any play mode, click the date you want to see, you can see the corresponding record file trace in the time bar.	
4	Playback mode and channel selection pane	• Playback mode：1/4/9/16 ○ In 1-window playback mode: you can select 1-16 channels. ○ In 4-window playback mode: you can select 4 channels according to your requirement. ○ In 9-window playback mode, you can switch between 1-8 and 9-16 channels. ○ In 16-window playback mode, you can switch between1-16 and 17-32 channels. • The time bar will change once you modify the playback mode or the channel options.	
5	Card number search	The card number search interface is shown below. Here you can view card number/field setup bar. You can implement the advanced search. 	
6	Mark file list button	Click this to go to mark file list interface. You can view all mark information of current channel by time. Please note only the product of this icon supports mark function.	
7	File list switch button	• Double click this and you will be able to view the picture/record file list of current day. • The file list displays the first channel of the recorded file. • The system can display a max of 128 files in one time. Use the < | and | > or the mouse to view the file. Select one item, and then double click the mouse or click the ENTER button to playback. • You can input the period in the following interface to begin accurate search. • File type: R - regular record; A - external alarm; M – Motion detect record. • Lock file. Click the file you want to lock and click the button to lock. The file you have locked will not be overwritten. • Search locked file: Click the button to view the locked file.	
8	Playback control pane	►/||	**Play/Pause** There are three ways for you to begin playback: 1. The play button 2. Double Click the valid period in the time bar. 3. Double click the item in the file list. In slow play mode, click this to switch between play/pause.
		■	**Stop**
		◄	**Reverse Play** • In normal play mode, left click the button, the file begins reverse play. Click it again to pause current play. • In backward play mode, click ►/|| to restore normal play.

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		|◄ / ►|	In playback mode, click these buttons to play the next or the previous section. You can click them continuously when you are watching the files from the same channel. In normal play mode, when you pause the current play, you can click ► | and | ◄ to begin frame by frame playback. In frame by frame playback mode, click ►/|| to restore normal playback.
		►	**Slow play** In playback mode, click it to initiate various slow play modes such as slow play 1, slow play 2, etc.
		►►	**Fast forward** In playback mode, click to intiate various fast play modes such as fast play 1,fast play 2, etc.
			Smart search
			The volume of the playback
			• Click the snapshot button in the full-screen mode, the system can snapshot 1 picture. • System supports custom snap picture saved path. Please connect the peripheral device first, click snap button on the full-screen mode, you can select or a create path. Click Start button, the snapshot picture can be saved to the specified path.
			Mark button.
9	Time bar		• This isto display the record type and its period in current search criteria. • In 4-window playback mode, there are corresponding four time bars. In other playback mode, there is only one time bar. • Use the mouse to click one point on the color zone in the time bar, system begins playback. • The time bar is begins at 0 o'clock when you are setting the configuration. The time bar zooms in the period of the current playback time when you are playing the file. • The green color stands for the regular record file. The red color stands for the external alarm record file. The yellow stands for the motion detect record file.
10	Time bar unit		• The option includes: 24H, 12H, 1H and 30M. The smaller the unit, the larger the zoom rate. You can accurately set the time in the time bar to playback the record. • The time bar is begins with 0 o'clock when you are setting the configuration. • The time bar zooms in the period of the current playback time when you are playing the file.
11	Backup		• Select the file(s) you want to backup from the file list. You can check from the list. Then click the backup button, now you can see the backup menu. System supports a customised path setup. After selecting or creating a new folder, click the Start button to begin the backup operation. The record file(s) will be saved in the specified folder. • Check the file again you can cancel current selection. System max supports to display 32 files from one channel. • After you clip on record file, click the Backup button, you

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		will be able to save it. For one device, if there is a backup in process, you can not start a new backup operation •
12	Clip	• This isto edit the file • Please play the file you want to edit and then click this button when you want to edit. You can will the corresponding slide bars in the time bar of the corresponding channel. You can adjust the slide bar or input the accurate time to set the file end time. • After you set, you can click Clip button again to edit the second period. You will see the slide bar restore its previous position. • Click Backup button after clip, you can save current contents in a new file. • You can clip for one channel or multiple-channel. The multiple-channel click operation is similar with the one-channel operation. Please note: • **System max supports 1024 files backup at the same time.** • **You can not operate clip operation if there is any file has been checked in the file list.**
13	Record type	In any play mode, the time bar will change once you modify the search type.
		Other Functions
14	Smart search	• When system is playing, you can select a zone in the window to begin smart search. Click the motion detect button to begin play. • Once the motion detect play has begun, click button again will terminate current motion detect file play. • There is no motion detect zone by default. • If you select to play other file in the file list, system switches to motion detect play of other file. • During the motion detect play process, you can not implement operations such as change time bar, begin backward playback or frame by frame playback.
15	Other channel synchronisation switch to play when playing back	When playing the file, click the number button, system can switch to the same period of the corresponding channel to play.
16	Digital zoom	When the system is in full-screen playback mode, left click the mouse in the screen. Drag your mouse in the screen to select a section and then left click mouse to digital zoom in or out. You can right click mouse to exit.
17	Manually switch channel when in playback	• During the file playback process, you can switch to other channel via the dropdown list or rolling the mouse. • This function is null if there is no record file or system is in smart search process.

- **Smart Search**

During the multiple-channel playback mode, double click one channel and then click the button, system begins smart search. System supports 396 (22x18 PAL) and 330 (22x15 NTSC) zones. Please left click mouse to select smart search zones. See Figure 4-33.

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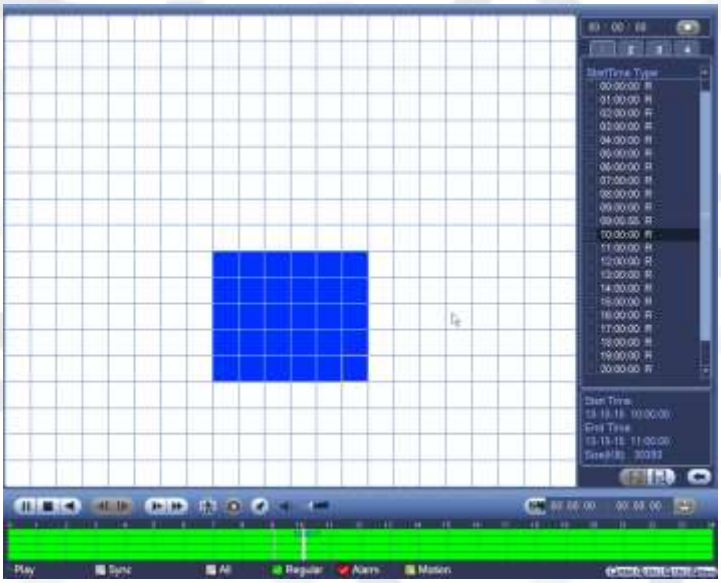

Figure 4-33

Click the button, you can go to the smart search playback. Click it again, system stops smart search playback.

Important:

- **System does not support motion detect zone setup during the full-screen mode.**
- **During the multiple-channel playback, system stops playback of rest channels if you implement one-channel smart search.**

- **Accurate playback by time**

Select records from one day, click the list, you can go to the file list interface. You can input time at the top right corner to search records by time. See image on the left side of the Figure 4-34 For example, input time 11:00.00 and then click Search button , you can view all the record files after 11:00.00 (The records includes current time.). See image on the right side of the Figure 4-34 Double click a file name to playback.

Note:

- After you searched files, system implement accurate playback once you click Play for the first time.
- System does not support accurate playback for picture.
- System supports synchronization playback and non-synchronous playback. The synchronisation playback supports all channels and non-synchronous playback only supports accurate playback of currently selected channel.

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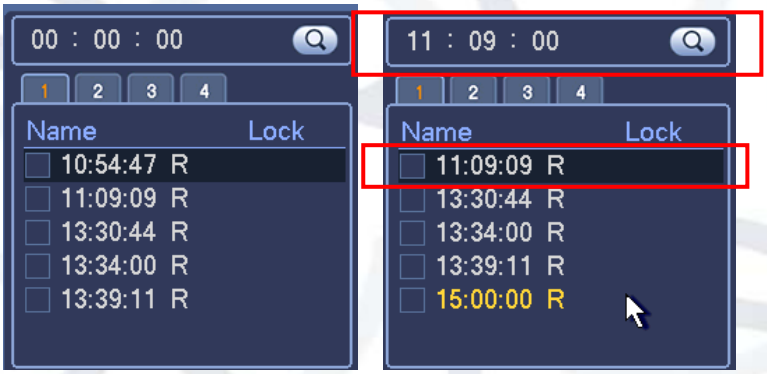

Figure 4-34

- **Mark Playback**

When you are playback record, you can mark the record when there is important information. After playback, you can use time or the mark key words to search corresponding record and then play. This isvery easy for you to get the important video information.

- **Add Mark**: When the system is in playback mode, click the mark button and you can go to the following interface. See figure 4-35.

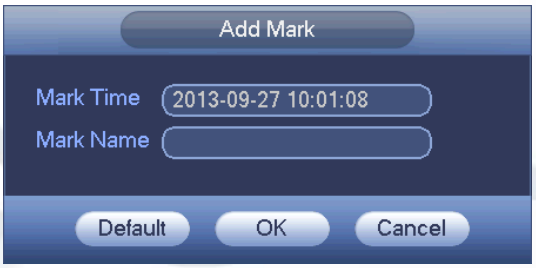

Figure 4-35

- **Playback Mark:** During 1-window playback mode, click mark file list button in Figure 4-32, you will go to mark file list interface. Double click one marked file, you will begin playback from the marked time.
- **Play before mark time:** Here you can set to begin playback from previous No. seconds of the mark time.

Note:
Usually the system can playback previous number of seconds of the recording, if there is a video record file as such. Otherwise the system will playback from the previous X seconds when there is that type of video record.

- **Mark manager:** Click the mark manager button on the Search interface (Figure 4-32); you will go to Mark Manager interface. See Figure 4-36. The System can manage all the recorded mark information of current channel by default. You can view all mark information of the current channel by the time.

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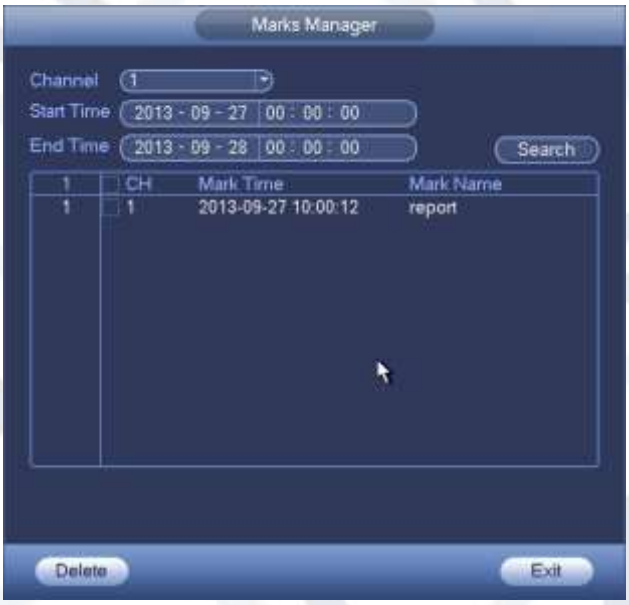

Figure 4-36

- **Modify:** Double click one mark information item, you will see that the system pops up a dialogue box for you to change mark information. You can only change mark name here.
- **Delete:** Here you can check the mark information item you want to delete and then click Delete button, you can remove one mark item.

Note:

- After you go to the mark management interface, system needs to pause current playback. System resumes playback after you exit the mark management interface.
- If the mark file you want to play has been removed, system will begin playback from the first file in the list.

4.8.2 Backup

DVR supports CD-RW, DVD burner, USB device backup, network download and eSATA. Here we introduce USB, eSATA backup. You can refer to Chapter 5 Web Client Operation for network download backup operation.

Click the backup button, you will see an interface is shown as in Figure 4-37. Here is for you to view devices information.

You can view backup device name and its total space and free space. The device includes CD-RW, DVD burner, USB device, flash disk, eSATA backup.

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Figure 4-37

Select backup device and then set the channel, file start time and end time.

Click the add button (Shown in Figure 4-38), system begins search. All matched files are listed below. System automatically calculates the capacity needed and remained. See Figure 4-39.

Figure 4-38

System only backup files with a √ before channel name. You can use Fn or cancel button to delete √ after file serial number.

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Click the Start button, system begins copy. At the same time, the backup button becomes stop button. You can view the remaining time and process bar at the left bottom. See Figure 4-39.

Figure 4-39

When the system completes backup, you will see a dialogue box prompting successful backup.

File format: Click the file format; you can see there are two options: DAV/ASF. The file name format usually is: *Channel number+Record type+Time*. In the file name, the YDM format is **Y+M+D+H+M+S**. File extension name is **.dav**.

Tip:
During backup process, you can click ESC to exit current interface for other operation. The system will not terminate backup process.

Note:
When you click the stop button during the burning process, the stop function becomes activated immediately. For example, if there are ten files, when you click the stop button the system just backs-up five files, system only saves the previous 5 files in the device (But you can view ten file names).

4.8.3 Shut Down

In Figure 4-31, select Shut Down, you can go to the following interface. There are three options: Shutdown/logout/reboot. See Figure 4-40.

For the user who does not have the shut down rights on their profile, please input corresponding password to shut down.

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Figure 4-40

4.9 Information

4.9.1 System Info

Here is for you to view system information. There are total four items: HDD (hard disk information), record, BPS (data stream statistics), version. See Figure 4-41.

Figure 4-41

- **HDD Information**
  Here is to list hard disk type, total space, free space, video start time and status. See Figure 4-42.
  - SATA: 1-8 here means system max supports 8 HDDS (It depends on the product you purchased). O means current HDD is normal. **X** means there is error. **-** means

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there is no HDD. If disk is damaged, system shows as “**?**”. Please remove the broken hard disk before you add a new one.

- SN: You can view the HDD amount the device connected to. ● means the second HDD is current working HDD.
- Type: The corresponding HDD properties.
- Total space: The HDD total capacity.
- Free space: The HDD free capacity.
- Status: HDD can work properly or not.
- SMART: Display HDD information. See Figure 4-43.

Figure 4-42

Double click on HDD information; you will see the HDD SMART information. See Figure 4-43.

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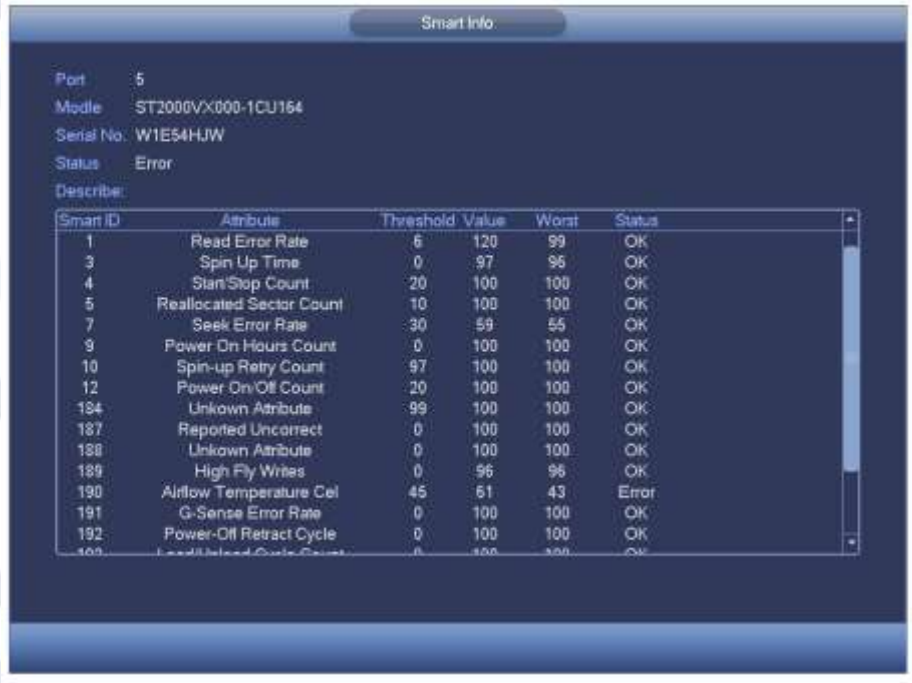
Smart Info
Port 5
Modle ST2000VX000-1CU164
Serial No. W1E54HJW
Status Error
Describe:
Smart ID Attribute Threshold Value Worst Status
1 Read Error Rate 6 120 99 OK
3 Spin Up Time 0 97 96 OK
4 Start/Stop Count 20 100 100 OK
5 Reallocated Sector Count 10 100 100 OK
7 Seek Error Rate 30 59 55 OK
9 Power On Hours Count 0 100 100 OK
10 Spin-up Retry Count 97 100 100 OK
12 Power On/Off Count 20 100 100 OK
184 Unkown Attribute 99 100 100 OK
187 Reported Uncorrect 0 100 100 OK
188 Unkown Attribute 0 100 100 OK
189 High Fly Writes 0 96 96 OK
190 Airflow Temperature Cel 45 61 43 Error
191 G-Sense Error Rate 0 100 100 OK
192 Power-Off Retract Cycle 0 100 100 OK

Figure 4-43

- **Record Info**

  This isto view record start and end time. See Figure 4-44

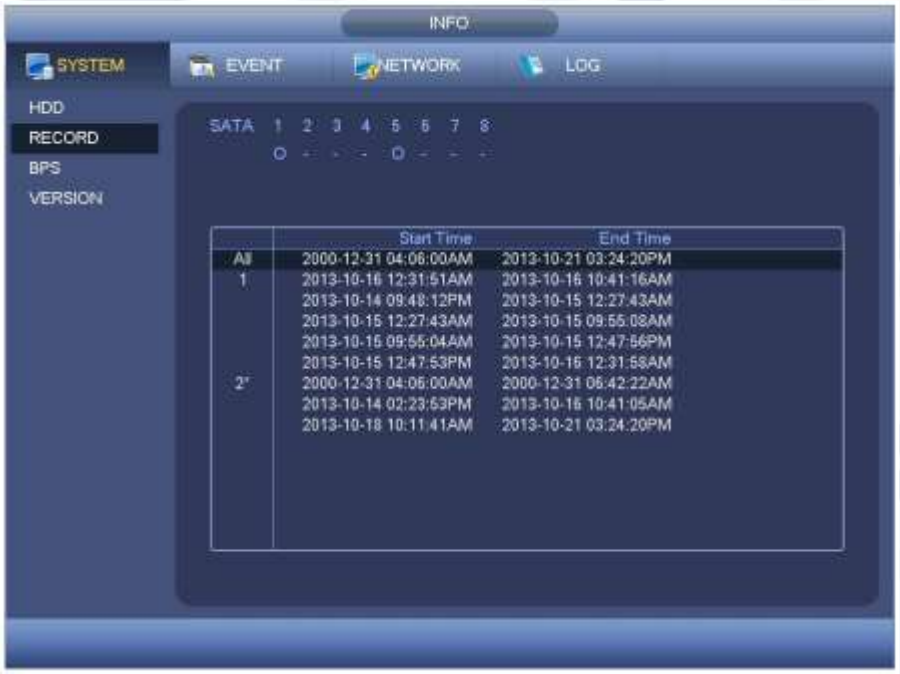

Figure 4-44

- **BPS**

  Here is for you to view current video data stream (KB/s) and occupied hard disk storage (MB/h). See Figure 4-45.

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Figure 4-45

- **Version**

  Here is for you to view some version information such as version number, built date, serial number, etc. See Figure 4-46.

Figure 4-46

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4.9.2 Event

This isto display device & channel status. See Figure 4-47.

Figure 4-47

4.9.3 Network

- **Online Users**

  Here is for you to manage online users. See Figure 4-48.

  You can disconnect one user or block one user if you have proper system right. Max disconnection setup is 65535 seconds.

  System will try to detect to see there is any newly added or deleted user in each five seconds and refresh the list automatically.

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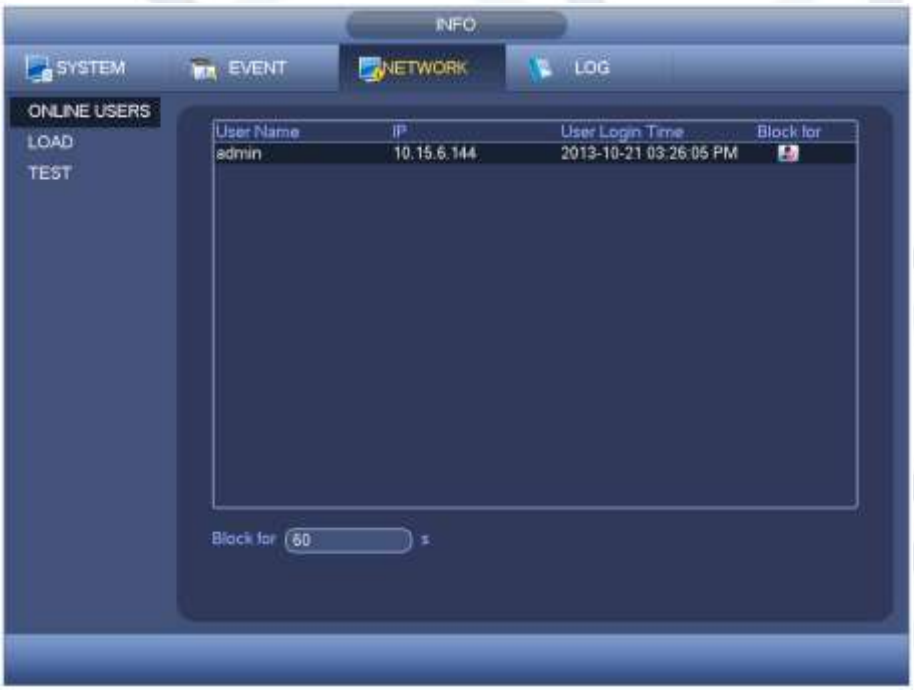

Figure 4-48

- **Network Load**

  Network load is shown in Figure 4-49. Here you can view the follow statistics of the device network adapter.

  Here you can view information of all connected network adapters. The connection status is shown as offline if connection is disconnected. Click one network adapter, you can view the flow statistics such as send rate and receive rate at the top panel.

Figure 4-49

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- **Network Test**

  Network test interface is shown in Figure 4-50.
  - Destination IP: Please input valid IPV4 address or domain name.
  - Test: Click it to test the connection with the destination IP address. The test results can display average delay and packet loss rate and you can also view the network status as OK, bad, no connection, etc.
  - Network Sniffer backup: Please insert USB2.0 device and click the Refresh button, you can view the device on the following column. You can use the dropdown list to select peripheral device. Click Browse button to select the snap path. The steps here are same as preview backup operation.

  You can view all connected network adapter names (including Ethernet, PPPoE, WIFI, and 3G), you can click the button on the right panel to begin Sniffer. Click the grey stop button to stop. Please note system can not Sniffer several network adapters at the same time.

  After Sniffer begins running, you can exit to implement corresponding network operation such as login WEB, monitor. Please go back to the Sniffer interface to click to stop Sniffer. System can save the packets to the specified path. The file is named after “Network adapter name+time”. You can use software such as **Wireshark** to open the packets on the PC for the professional engineer to solve complicated problems.

Figure 4-50

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4.9.4 Log

Here is for you to view system log file. System lists the following information. See Figure 4-51.

Log types include system operation, configuration operation, data management, alarm event, record operation, account manager, log clear, file operation and etc. It optimises the reboot log. There are only three types: normal reboot, abnormal reboot and protection reboot. 0x02, 0x03, 0x04 is included in the protection reboot type.

- **Start time/end time**: Please select start time and end time, then click search button. You can view the log files in a list. System max displays 100 logs in one page. It can save a maximum of 1024 log files. Please use page up/down button on the interface or the front panel to view more.
- **Backup**: Please select a folder you want to save; you can click the backup button to save the log files. After the backup, you can see there is a folder named **Log_time** on the backup path. Double click the folder, you can see the log file
- **Details**: Click the Details button or double click the log item, you can view the detailed information. See Figure 4-52. Here you can use the rolling bar to view information, or you can use Page up/Page down to view other log information.

Figure 4-51

Select an item on the list and then click the Details button or double click the log item, you can view the detailed information such as log time, log type, log user, IP address, etc. See Figure 4-52.

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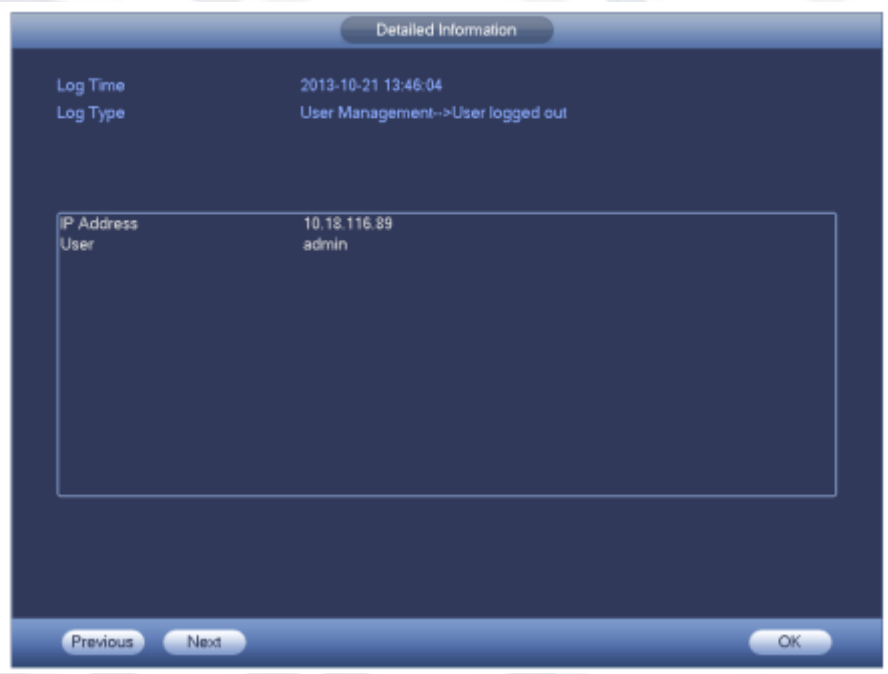

Figure 4-52

- **Remote Log**:
  In this interface, you can search the IPC log information of the corresponding channel. It includes IPC online, offline, etc. See Figure 4-53.

  You can select a channel from the dropdown list and then set start time and end time. Click search button, you can view the remote connection log of current channel. You can select another channel (doe not need to click Search button again), you can view remote connection log.

Figure 4-53

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4.10 Setting

4.10.1 Camera: Remote Device (for digital channel only)

- **Remote Device:** In the main menu, from Camera ->Remote, you can go to an interface shown as in Figure 4-54. Here you can add/delete remote device and view its corresponding information.
  - Device search: Click it to search IP address. It includes device IP address, port, device name, manufacturer, type. Use your mouse to click the item name, you can refresh display order. Click IP address, system displays IP address from small to large. Click IP address again, you can see icon, system displays IP address from large to small. You can click other items to view information conveniently.
  - Add: Click it to connect to the selected device and add it to the Added device list. It supports Batch add. **You can see the corresponding dialogue box if all digital-channel has connected to the front-end. System can not add new device if the device you want to add has the same IP and TCP port as the device in the list.**
  - Show filter: You can use it to display the specified devices from the added device.
  - Edit: Click button or double click a device in the list, you can change channel setup.
  - Delete: Please select one device in the Added device list and then click to remove.
  - Status: means connection is OK and means connection failed.
  - Delete: Select a device on the Added device list, click Delete button, system disconnect device first and then remove its name from the list.
  - Manual add: Click it to add the IPC manually. The port number is 37777. The default user name is admin and password is admin.

Figure 4-54

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Click the Manual Add button; you can go to the following interface. See Figure 4-57. Channel number：The dropdown list here displays unconnected channel number. You can go to Figure 4-56 to set remote channel connection.

Please note:

- System default IP address is 192.168.0.0 if you do not input IP address. System will not add current IP address.
- You cannot add two or more devices in the Manual Add interface (Figure 4-57). Click the OK button, system connects to the corresponding front-end device of current channel on the interface.

Figure 4-55

- **Channel Status**
  Here you can view the IPC status of the corresponding channel such as motion detect, video loss, tampering, alarm and etc. See Figure 4-55B.
  - IPC Status - Front end does not support channel. - Front end supports. There is an alarm event at the front end.
  - Connection status: - Connection succeeded. - Connection failed.
  - Refresh: Click it to get latest front-end channel status.

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Figure 4-55B

- **Firmware**
  This isto view channel, IP address, manufacturer, type, system version, SN, video input, audio input, external alarm, etc. See Figure 4-56.

Figure 4-56

- **Remote Upgrade**
  This isto update the camera.

  From main **menu->setting->camera->remote**, the interface is shown below. See Figure 4-57.

  Click the Browse button and then select the upgrade file. Then select a channel (or you can select device type filter to select several devices at the same time.)

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Click the Start upgrade button to update. You will see the corresponding dialogue once the upgrade is finished.

Figure 4-57

- **Image**

  The image interface is shown below. See Figure 4-58 (analog channel) and Figure 4-59 (digital channel).

  - Channel: Select a channel from the dropdown list.
  - Saturation: This isto adjust monitor window saturation. The value ranges from 0 to 100. The default value is 50. The larger the number, the strong the color is. This value has no effect on the general brightness of the whole video. The video color may become too strong if the value is too high. For the grey part of the video, the distortion may occur if the white balance is not accurate. Please note the video may not be attractive if the value is too low. The recommended value ranges from 40 to 60.
  - Brightness: This isto adjust monitor window bright. The value ranges from 0 to 100. The default value is 50. The larger the number is, the bright the video is. When you input the value here, the bright section and the dark section of the video will be adjusted accordingly. You can use this function when the whole video is too dark or too bright. Please note the video may become hazy if the value is too high. The recommended value ranges from 40 to 60.
  - Contrast: This isto adjust monitor window contrast. The value ranges from 0 to 100. The default value is 50. The larger the number is, the higher the contrast is. You can use this function when the whole video bright is OK but the contrast is not proper. Please note the video may become hazy if the value is too low. If this value is too high, the dark section may lack brightness while the bright section may over exposure .The recommended value ranges from 40 to 60.

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- Sharpness: The value here is to adjust the edge of the video. The value ranges from 0 to 100. The larger the value is, the clear the edge is and vice versa. Please note there is noise if the value here is too high. The default value is 50 and the recommended value ranges from 40 to 60.
- Mirror: This isto switch video up and bottom limit. This function is disabled by default.
- Flip: This isto switch video left and right limit. This function is disabled by default.
- BLC: This includes several options: BLC/WDR/HLC/OFF.
    - BLC: The device auto exposures according to the environments situation so that the darkest area of the video is cleared.
    - WDR: For the WDR scene, this function can lower the high bright section and enhance the brightness of the low bright section. So that you can view these two sections clearly at the same time. The value ranges from 1 to 100. When you switch the camera from no-WDR mode to the WDR mode, system may lose several seconds record video.
    - HLC: After you enabled HLC function, the device can lower the brightness of the brightest section according to the HLC control level. It can reduce the area of the halo and lower the brightness of the whole video.
    - OFF: This isto disable the BLC function. Please note this function is disabled by default.
- Profile: This isto set the white balance mode. It has effect on the general hue of the video. This function is on by default. You can select the different scene mode such as auto, sunny, cloudy, home, office, night, disable and etc to adjust the video to the best quality.
    - Auto: The auto white balance is on. System can auto compensate the color temperature to make sure the vide color is proper.
    - Sunny: The threshold of the white balance is in the sunny mode.
    - Night: The threshold of the white balance is in the night mode.
    - Customised: You can set the gain of the red/blue channel. The value ranges from 0 to 100.
- Day/night. This isto set device color and the B/W mode switch. The default setup is auto.
    - Color: Device outputs the color video.
    - Auto: Device auto select to output the color or the B/W video according to the device feature (The general bright of the video or there is IR light or not).
    - B/W: The device outputs the black and white video.
    - Sensor: This isto set when there is peripheral connected IR light.

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Figure 4-58

Figure 4-59

- **Encode**

  This isto set the video bit stream, picture bit stream, video overlay parameter, etc.

  - Video

    Video setting includes the following items. See Figure 4-60.

    - Channel: Select the channel you want.

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- Type: Please select from the dropdown list. There are three options: regular/motion detect/alarm. You can set the various encode parameters for different record types.
- Compression: System supports H.264 and MJPEG.
- Resolution: For analog channel, system supports various resolutions, you can select from the dropdown list. Please note the option may vary due to different series. For digital channel, This isthe resolution of the connected network camera.
- Frame rate: It ranges from 1f/s to 25f/s in NTSC mode and 1f/s to 30f/s in PAL mode.
- Bit rate type: System supports two types: CBR and VBR. In VBR mode, you can set video quality.
- Quality: There are six levels ranging from 1 to 6. The sixth level has the highest image quality.
- Video/audio: You can enable or disable the video/audio.
- Audio: Please select from the dropdown list.

Figure 4-60

- **Snapshot**
  Here you can set snapshot mode, picture size, quality and frequency. See Figure 4-61.
  - Snapshot mode: There are two modes: regular and trigger. If you the set timing mode, you need to set snapshot frequency. If you set trigger snapshot, you need to set snapshot activation operation.
  - Image size: Here you can set snapshot picture size.
  - Image quality: Here you can set snapshot quality. The value ranges from 1 to 6.

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- Interval: This isfor you to set timing (schedule) snapshot interval.

Figure 4-61

- Overlay
  Overlay Interface is shown in Figure 4-62
  - Cover area: Here is for you to set cover area. You can drag you mouse to set proper section size. In one channel video, system max supports 4 zones in one channel.
  - Preview/monitor: privacy mask has two types. Preview and Monitor. Preview means the privacy mask zone can not be viewed by user when system is in preview status. Monitor means the privacy mask zone can not be view by the user when system is in monitor status.
  - Time display: You can select system displays time or not when you playback. Please click set button and then drag the title to the corresponding position in the screen.
  - Channel display: You can select system displays channel number or not when you playback. Please click set button and then drag the title to the corresponding position in the screen.
  - Copy：After you complete the setup, you can click Copy button to copy current setup to other channel(s). You can see an interface is shown as in Figure 4-63. You can see current channel number is grey. Please check the number to select the channel or you can check the box ALL. Please click the OK button in Figure 4-63 and Figure 4-62 respectively to complete the setup.

Please highlight icon ■ to select the corresponding function.

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Figure 4-62

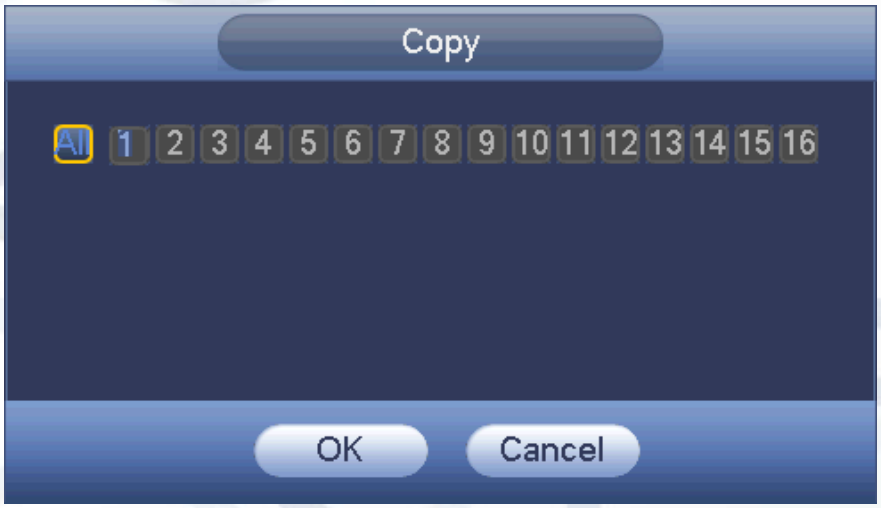

Figure 4-63

- Channel Name
  This isto modify channel name. Supports a maximum of 31-characters. See Figure 4-64

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Figure 4-64

- Channel Type
  This isto set channel type. Each channel supports analog connection/analog HD connection/network camera connection (Slight function differences may be found). The network camera connection shall begin with the last channel. Please note DVR needs to restart to activate new setup. See Figure 4-65.

Figure 4-65

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4.10.2 Network

- **TCP/IP**

  The single and double network adapter interface are shown as in Figure 4-66.

  - Network Mode: Includes multiple access, fault tolerance, and load balancing.
    - Multiple-address mode: eth0 and eth1 operate separately. You can use the services such as HTTP, RTP service via etho0 or the eth1. Usually you need to set one default card (default setup is etho) to request the auto network service form the device-end such as DHCP, email, FTP and etc. In multiple-address mode, system network status is shown as offline once one card is offline.
    - Network fault-tolerance: In this mode, device uses bond0 to communicate with the external devices. You can focus on one host IP address. At the same time, you need to set one master card. Usually there is only one running card (master card).System can enable alternate card when the master card is malfunction. The system is shown as offline once these two cards are both offline. Please note these two cards shall be in the same LAN.
    - Load balance: In this mode, device uses bond0 to communicate with the external device. The eth0 and eth1 are both working now and bearing the network load. Their network load are general the same. The system is shown as offline once these two cards are both offline. Please note these two cards shall be in the same LAN.
  - Default Network Card: Please select eth0/eth1/bond0 (optional) after enable multiple-access function.
  - Main Network Card: Please select eth0/eth1 (optional).after enable multiple access function.
  - IP Version: There are two options: IPv4 and IPv6. Right now, system supports these two IP address format and you can access via them.
  - MAC address: The host in the LAN can get a unique MAC address. This isfor you to access in the LAN. This isread-only.
  - IP address: Here you can use up/down button (▲▼) or input the corresponding number to input IP address. Then you can set the corresponding subnet mask the default gateway.
  - Default gateway: Here you can input the default gateway. Please note system needs to check the validity of all IPv6 addresses. The IP address and the default gateway shall be in the same IP section. That is to say, the specified length of the subnet prefix shall have the same string.
  - DHCP: This isto auto search IP. When enable DHCP function, you can not modify IP/Subnet mask /Gateway. These values are from DHCP function. If you have not enabled DHCP function, IP/Subnet mask/Gateway display as zero. You need to disable DHCP function to view current IP information. Besides, when PPPoE is operating, you can not modify IP/Subnet mask /Gateway.
  - MTU: This isto set MTU value of the network adapter. The value ranges from 1280-7200 bytes. The default setup is 1500 bytes. Please note MTU modification may result in network adapter reboot and network becomes off. That is to say, MTU

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modification can affect current network service. System may pop up dialog box for you to confirm setup when you want to change MTU setup. Click OK button to confirm current reboot, or you can click Cancel button to terminate current modification. Before the modification, you can check the MTU of the gateway; the MTU of the DVR shall be the same as or is lower than the MTU of the gateway. In this way, you can reduce packets and enhance network transmission efficiency.

The following MTU value is for reference only.

- 1500: Ethernet information packet max value and This isalso the default value. This isthe typical setup when there is no PPPoE or VPN. This isthe default setup of some router, switch or the network adapter.
- 1492: Recommend value for PPPoE.
- 1468: Recommend value for DHCP.

- Preferred DNS server: DNS server IP address.
- Alternate DNS server: DNS server alternate address.
- Transfer mode: Here you can select the priority between fluency/video qualities.
- LAN download: System can process the downloaded data first if you enable this function. The download speed is 1.5X or 2.0X of the normal speed.
- LAN download: System can process the downloaded data first if you enable this function. The download speed is 1.5X or 2.0X of the normal speed.

After completing all the setups please click save button, system goes back to the previous menu.

Figure 4-66

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- **Connection**

  The connection setup interface is shown in Figure 4-68.

  - Max connection: system support maximal 128 users. 0 means there is no connection limit.
  - TCP port: Default value is 37777.
  - UDP port: Default value is 37778.
  - HTTP port: Default value is 80.
  - HTTPS port: Default value is 443.
  - RTSP port: Default value is 554.

Important: System needs to reboot after you changed and saved any of the setup related to the four ports above. Please make sure the port values here do not conflict.

Figure 4-68

- **WIFI**

  The WIFI interface is shown as below. See Figure 4-69.

  - Auto connect WIFI: Check the box here, system automatically connects to the previous WIFI hotspot.
  - Refresh: You can click it to search the hotspot list again. It can automatically add the information such as the password if you have set it before.
  - Disconnect: Here you can click it to turn off the connection.
  - Connect: Here you can click it to connect to the hotspot. System needs to turn off current connection and then connect to a new hotspot if there is connection of you selected one.

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Figure 4-69

- WIFI working status: Here you can view current connection status.

Please note:

- After successfully connecting, you will see WIFI connection icon at the top right corner of the preview interface.
- When the hotspot verification type is WEP, system displays as AUTO since the device can not detect its encryption type.
- System does not support verification type WPA and WPA2. The display may become abnormal for the verification type and encryption type.

After device successfully connected to the WIFI, you can view the hotspot name, IP address, subnet mask, default gateway, etc.

- **3G**

  3G setup interface is shown below. See Figure 4-70. Please refer to the following contents for the parameter information.

  - Pane 1: Display 3G signal intensity after you enabled 3G function.
  - Pane 2: Display 3G module configuration information after you enabled 3G function.
  - Pane 3: Display 3G module status information after you enabled 3G function.

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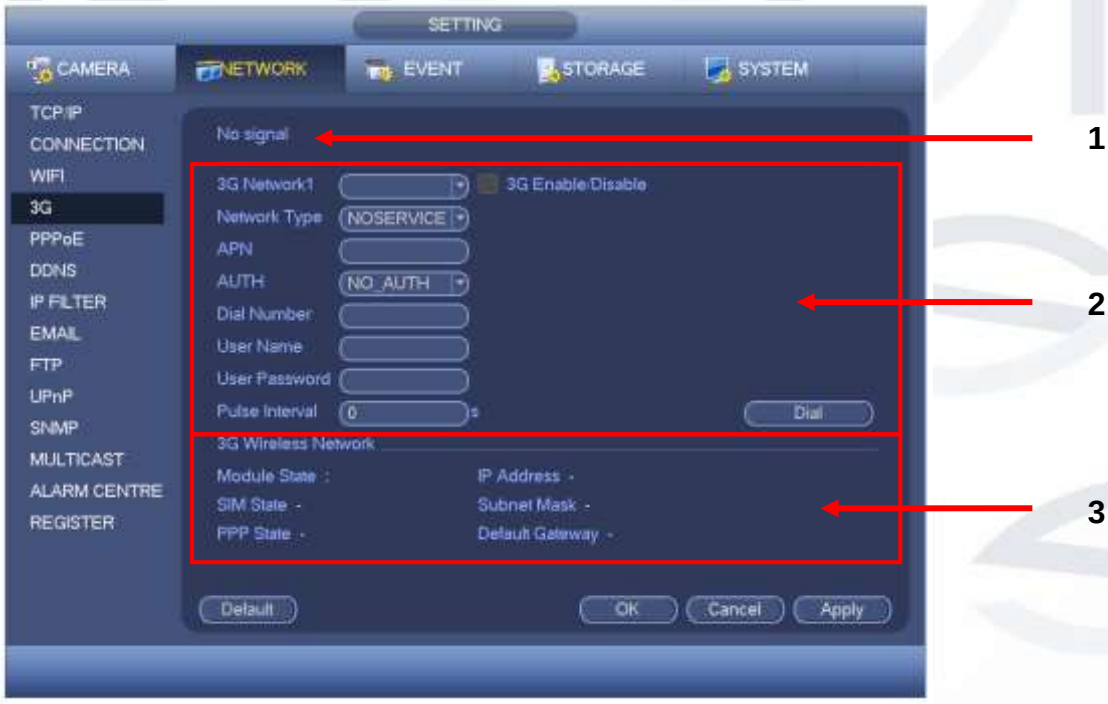

Figure 4-70

This isto display current wireless network signal intensity such as EVDO, CDMA1x, WCDMA, WCDMA, EDGE, etc.

- 3G module: This isto display current wireless network adapter name.
- 3G Enable/Disable: Check the box here to enable 3G module.
- Network type: There are various network types for different 3G network modules. You can select according to your requirements.
- APN: This isthe wireless connection server. This isto set you access the wireless network via which method.
- AUTH: This isthe authentication mode. It supports PAP/CHAP.
- Dial number: Please input 3G network dialup number you got from your ISP.
- User name: This isthe user name for you to login the 3G network.
- Password: This isthe password for you to login the 3G network.
- Pulse interval: You can set dialup duration. Once you disable the extra stream, the connection time begins. For example, if you input 5 seconds here, then 3G network connection period is 5 seconds. The device automatically disconnect when time is up. If there is no extra stream, 3G network connection is valid all the time. If the alive time is 0, then the 3G network connection is valid all the time.
- Dial: Here you can enable or disable 3G network connection/disconnection manually.
- 3G wireless network: Here is to display wireless network status, SIM card status, dial status. If the 3G connection is OK, then you can see the device IP address the wireless network automatically allocates.

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- **PPPoE**

  PPPoE interface is shown as in Figure 4-71.

  Input “PPPoE name” and “PPPoE password” you get from your ISP (Internet service provider).

  Click save button, you need to restart to activate your configuration.

  After rebooting, DVR will connect to internet automatically. The IP in the PPPoE is the DVR dynamic value. You can access this IP to visit the unit.

Figure 4-71

- **DDNS Setup**

  DDNS setup interface is shown as in Figure 4-72.

  You need a PC with a fixed IP on the internet and there is the DDNS software running in this PC. In other words, this PC is a DNS (domain name server).

  In network DDNS, please select DDNS type and highlight enable item. Then please input your PPPoE name you get from you IPS and server IP (PC with DDNS). Click save button and then reboot system.

  Click save button, system prompts for rebooting to get all setup activated.
  After rebooting, open IE and input as below:

  http：//(DDNS server IP)/*(virtual directory name)*/webtest.htm

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e.g.: http：//10.6.2.85/DVR _DDNS/webtest.htm.)

Now you can open DDNSServer web search page.

Figure 4-72

Please note NNDS type includes: CN99 DDNS, NO-IP DDNS, Quick DDNS, Dyndns DDNS and sysdns DDNS. All the DDNS can be valid at the same time, you can select as you requirement.

Private DDNS function shall work with special DDNS server and special Professional Surveillance Software (PSS).

Quick DDNS and Client-end Introduction:

1. Background Introduction: Device IP is not fixed if you use ADSL to login the network. The DDNS function allows you to access the DVR via the registered domain name. Besides the general DDNS, the Quick DDNS works with the device from the manufacturer so that it can add the extension function.
2. Function Introduction: The quick DDNS client has the same function as other DDNS client end. It can bond the domain name and the IP address. Right now, current DDNS server is for our own devices only. You need to refresh the bonding relationship of the domain and the IP regularly. There is no user name, password or the ID registration on the server. At the same time, each device has a default domain name (Generated by MAC address) for your option. You can also use customized valid domain name (has not registered).
3. Operation: Before you use Quick DDNS, you need to enable this service and set proper server address, port value and domain name.
    - Server address：www.quickddns.com

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- Port number：80
- Domain name：There are two modes: Default domain name and customised domain name.

Accept default domain name registration, you can also use customised domain name (You can input your self-defined domain name.) After successful registration, you can use domain name to login installed of the device IP.

- User name: It is optional. You can input your commonly used email address.

Important:

- **Do not register frequently. The interval between two registrations shall be more than 60 seconds. Too many registration requests may result in server attack.**
- **System may take back the domain name that is idle for one year. You can get a notification email before the cancel operation if your email address setup is OK.**

- **IP Filter**

IP filter interface is shown as in Figure 4-73. You can add IP in the following list. The list supports max 64 IP addresses. System supports valid address of IPv4 and IPv6.

Please note system needs to check the validity of all IPv6 addresses and implement optimisation.

After you enabled trusted sites function, only the IP listed below can access current DVR. If you enable the blocked sites to function, the following listed IP addresses can not access current DVR.

- Enable: Highlight the box here, you can check the trusted site function and blocked sites function. You can not see these two modes if the Enable button is grey.
- Type: You can select trusted site and blacklist from the dropdown list. You can view the IP address on the following column.
- Start address/end address: Select one type from the dropdown list, you can input IP address in the start address and end address. Now you can click Add IP address or Add IP section to add.
  a) For the newly added IP address, it is in enabled status by default. Remove the √ before the item, and then current item is not in the list.
  b) System supports a maximum of 64 items.
  c) Address column supports IPv4 or IPv6 format. If it is IPv6 address, system can optimise it. For example, system can optimize aa:0000: 00: 00aa: 00aa: 00aa: 00aa: 00aa as aa:: aa: aa: aa: aa: aa: aa.
  d) System automatically removes space if there is any space before or after the newly added IP address.

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e) System only checks start address if you add IP address. System check start address and end address if you add IP section and the end address shall be larger than the start address.

f) System may check newly added IP address exists or not. System does not add if input IP address does not exist.

- Delete: Click it to remove specified item.
- Edit: Click it to edit start address and end address. See Figure 4-74. System can check the IP address validity after the edit operation and implement IPv6 optimization.
- Default: Click it to restore default setup. In this case, the trusted sites and blocked sites are both null.

Notes:

- If you enabled trusted sites, only the IP in the trusted sites list can access the device.
- If you enabled blocked sites, the IP in the blocked sites can not access the device.
- System supports add MAC address.

Figure 4-73

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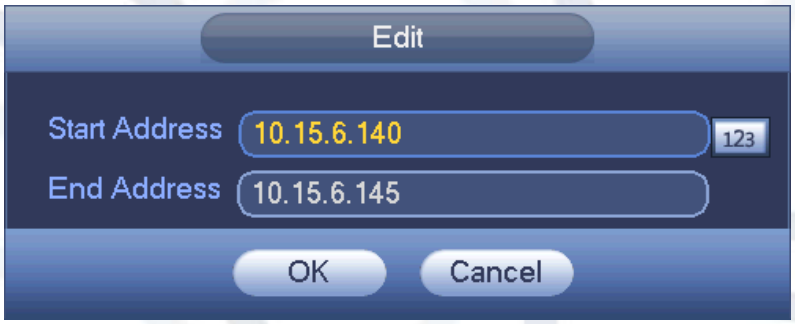

Figure 4-74

- **Email**

  The email interface is shown as below. See Figure 4-75.

  - SMTP server: Please input your email SMTP server IP here.
  - Port: Please input corresponding port value here.
  - User name: Please input the user name to login the sender email box.
  - Password: Please input the corresponding password here.
  - Sender: Please input sender email box here.
  - Title: Please input email subject here. System support English character and Arabic number. Max 32-digit.
  - Receiver: Please input receiver email address here. System supports a maximum of 3 email boxes. System automatically filters same addresses if you input one receiver repeatedly.
  - SSL enable: System supports SSL encryption box.
  - Interval: The send interval ranges from 0 to 3600 seconds. 0 means there is no interval.
  - Health email enable: Please check the box here to enable this function. This function allows the system to send out the test email to check the connection is OK or not.
  - Interval: Please check the above box to enable this function and then set the corresponding interval. System can send out the email regularly as you set here. Click the Test button, you can see the corresponding dialogue box to see the email connection is OK or not.

  Please note system will not send out the email immediately when the alarm occurs. When the alarm, motion detection or the abnormity event activates the email, system sends out the email according to the interval you specified here. This function is very useful when there are too many emails activated by the abnormity events, which may result in heavy load for the email server.

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Figure 4-75

- **FTP**

  You need to download or buy FTP service tool (such as Ser-U FTP SERVER) to establish FTP service.

  Please install Ser-U FTP SERVER first. From “start” -> “program” -> Serv-U FTP Server -> Serv-U Administator. Now you can set user password and FTP folder. Please note you need to grant write right to FTP upload user. See Figure 4-76.

Figure 4-76

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You can use a PC or FTP login tool to test setup is right or not. For example, you can login user ZHY to **FTP://10.10.7.7** and then test it can modify or delete folder or not. See Figure 4-77.

Internet Explorer
To log on to this FTP server, type a user name and password.
FTP server: 10.10.7.7
User name:
Password:
After you log on, you can add this server to your Favorites and return to it easily.
Log on anonymously
Log On
Cancel

Figure 4-77

System also supports upload multiple DVRs to one FTP server. You can create multiple folders under this FTP.

FTP interface is shown as in Figure 4-78.

Please highlight the icon in front of Enable to activate FTP function.

Here you can input FTP server address, port and remote directory. When remote directory is null, system automatically create folders according to the IP, time and channel.

User name and password is the account information needed for you to login the FTP.

File length is upload file length. When setup is larger than the actual file length, system will upload the whole file. When setup here is smaller than the actual file length, system only uploads the set length and auto ignore the left section. When interval value is 0, system uploads all corresponding files.
After completed channel and weekday setup, you can set two periods for one each channel.

Click the Test button, you can see the corresponding dialogue box to see the FTP connection is OK or not.

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Figure 4-78

- **UPnP**

  The UPNP protocol is to establish a mapping relationship between the LAN and the WAN. Please input the router IP address in the LAN in Figure 4-66. See Figure 4-79.

  - UPNP on/off: Turn on or off the UPNP function of the device.
  - Status: When the UPNP is offline, it shows as “Unknown”. When the UPNP works it shows “Success”
  - Router LAN IP: It is the router IP in the LAN.
  - WAN IP: It is the router IP in the WAN.
  - Port Mapping list: The port mapping list here is the one to one relationship with the router’s port mapping setting.
  - List:
    - Service name：Defined by user.
    - Protocol： Protocol type
    - Internal port：Port that has been mapped in the router.
    - External port：Port that has been mapped locally.
  - Default: UPNP default port setting is the HTTP, TCP and UDP of the DVR.
  - Add to the list: Click it to add the mapping relationship.
  - Delete: Click it to remove one mapping item.

  Double click one item; you can change the corresponding mapping information. See Figure 4-80.

  Important:

  When you are setting the router external port, please use 1024~5000 port. Do not use well-known port 1~255 and the system port 256~1023 to avoid conflict.

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For the TCP and UDP, please make sure the internal port and external port are the same to guarantee the proper data transmission

Figure 4-79

Figure 4-80

- **SNMP**

  SNMP is an abbreviation of Simple Network Management Protocol. It provides the basic network management frame of the network management system. The SNMP widely used in many environments. It is used in many network device, software and system.

  You can set in the following interface. See Figure 4-81

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Figure 4-81

Please enable the SNMP function. Use the corresponding software tool (MIB Builder and MG-SOFT MIB Browser. You still need two MIB file: BASE-SNMP-MIB, DVR-SNMP-MIB) to connect to the device. You can get the device corresponding configuration information after successfully connection.

Please follow the steps listed below to configure:

- In Figure 4-81, check the box to enable the SNMP function. Input the IP address of the PC than is running the software in the Trap address. You can use default setup for the rest items.
- Compile the above mentioned two MIB file via the software MIB Builder.
- Run MG-SOFT MIB Browser to load the file from the previous step to the software.
- Input the device IP you want to manage in the MG-SOFT MIB Browser. Please set the corresponding version for your future reference.
- Open the tree list on the MG-SOFT MIB Browser; you can get the device configuration. Here you can see the device has how many video channels, audio channels, application version, etc.

Note: Port conflict occurs when SNMP port and Trap port are the same.

- **Multicast**

  Multicast setup interface is shown as in Figure 4-82.

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Figure 4-82

- IP multiple cast group address:
  -224.0.0.0-239.255.255.255 -“D” address space

  The higher four-bit of the first byte=”1110”

- Reserved local multiple cast group address
  -224.0.0.0-224.0.0.255
  -TTL=1 When sending out telegraph -For example
  224.0.0.1 All systems in the sub-net 224.0.0.2 All routers in the sub-net
  224.0.0.4 DVMRP router
  224.0.0.5 OSPF router
  224.0.0.13 PIMv2 router

- Administrative scoped addressees
  -239.0.0.0-239.255.255.255 - Private address space

    - Like the single broadcast address of RFC1918
    - Can not be used in Internet transmission
    - Used for multiple cast broadcast in limited space.

  Except the above mentioned addresses of special meaning, you can use other addresses. For example:

  Multiple cast IP: 235.8.8.36
  Multiple cast PORT: 3666.

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After you logged in the Web, the Web can automatically obtains multiple cast address and add it to the multiple cast groups. You can enable real-time monitor function to view the view.

- **Alarm Centre**

  This interface is reserved for you to develop. See Figure 4-83.

Figure 4-83

- **Auto register**

  This function allows the device to auto register to the proxy you specified. In this way, you can use the client-end to access the DVR via the proxy. Here the proxy has a switch function. In the network service, device supports the server address of IPv4 or domain.

  Please follow the steps listed below to use this function.

  Please set proxy server address, port, and sub-device name at the device-end. Please enable the auto register function, the device can auto register to the proxy server.

  1. The setup interface is shown as in Figure 4-84.
     Important: Do not input network default port such as TCP port number.

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Figure 4-84

2. The proxy server software developed from the SDK. Please open the software and input the global setup. Please make sure the auto connection port here is the same as the port you set in the previous step.
3. Now you can add device. Please do not input default port number such as the TCP port in the mapping port number. The device ID here shall be the same with the ID you input in Figure 4-84. Click Add button to complete the setup.
4. Now you can boot up the proxy server. When you see the network status is Y, it means your registration is OK. You can view the proxy server when the device is online.

   Important: The server IP address can also be domain. But you need to register a domain name before you run proxy device server.

- **P2P**

  The P2P interface is shown as in Figure 4-85. You can visit **www.easy4ip.com** to scan the QR code to login.

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Figure 4-85

4.10.3 Event

- Detect: In the main menu, from Setting->Event->Detect, you can see motion detect interface. See Figure 4-86. There are three detection types: motion detection, video loss, tampering.
    - The video loss has no detection region and sensitivity setup and tampering has no detection region setup.
    - You can see motion detect icon if current channel has enabled motion detect alarm.
    - You can drag you mouse to set motion detect region. Please click OK button to save current region setup. Right click mouse to exit current interface.

    - Motion Detect: After analysis video, system can generate a video loss alarm when the detected moving signal reached the sensitivity you set here. Detection menu is shown as below. See Figure 4-86.

        - Event type: From the dropdown list you can select motion detection type.
        - Channel: Select a channel from the dropdown list to set motion detect function.
        - Enable: Check the box here to enable motion detect function.
        - Region: Click select button, the interface is shown as in Figure 4-90. Here you can set motion detection zone. There are four zones for you to set. Please select a zone first and then left drag the mouse to select a zone. The corresponding color zone displays different detection zone. You can click Fn button to switch between the arm mode and disarm mode. In arm mode, you can click the direction buttons to move the green rectangle to set the motion detection zone.

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After you completed the setup, please click ENTER button to exit current setup. Do remember click save button to save current setup. If you click ESC button to exit the region setup interface system will not save your zone setup. The analog channel supports 4 zones. For the digital channel, please make sure your network camera supports 4 zones. Otherwise, there is only one zone.

- Sensitivity: System supports 6 levels. The sixth level has the highest sensitivity.
- Anti-dither: Here you can set anti-dither time. The value ranges from 5 to 600s. The anti-dither time refers to the alarm signal lasts time. It can be seem as the alarm signal activation stays such as the buzzer, tour, PTZ activation, snapshot, channel record. The stay time here does not include the latch time. During the alarm process, the alarm signal can begin an anti-dither time if system detects the local alarm again. The screen prompt, alarm upload, email and etc will not be activated. For example, if you set the anti-dither time as 10 second, you can see the each activation may last 10s if the local alarm is activated. During the process, if system detects another local alarm signal at the fifth second, the buzzer, tour, PTZ activation, snapshot, record channel will begin another 10s while the screen prompt, alarm upload, email will not be activated again. After 10s, if system detects another alarm signal, it can generate an alarm since the anti-dither time is out.
- Period: Click set button, you can see an interface is shown as in Figure 4-89. Here you can set motion detect period. System only enables motion detect operation in the specified periods. It is not for video loss or the tampering. There are two ways for you to set periods. Please note system only supports 6 periods in one day.

  In Figure 4-89, Select icon of several dates, all checked items can be edited together. Now the icon is shown as . Click to delete a record type from one period.

  In Figure 4-89. Click button after one date or a holiday, you can see an interface shown as in Figure 4-90. There are four record types: regular, motion detection (MD), Alarm, MD & alarm.
- Alarm output: when an alarm occurs, system enables peripheral alarm devices.
- Latch: when motion detection complete, system auto delays detecting for a specified time. The value ranges from 1-300(Unit: second)
- Show message: System can pop up a message to alarm you in the local host screen if you enabled this function.
- Alarm upload: System can upload the alarm signal to the network (including alarm centre) if you enabled current function.

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- Send email: System can send out email to alert you when an alarm occurs.
- Record channel: System auto activates motion detection channel(s) to record once an alarm occurs. Please make sure you have set MD record in Schedule interface (Main Menu->Setting->Schedule) and schedule record in manual record interface (Main Menu->Advanced->Manual Record)
- PTZ activation: Here you can set PTZ movement when an alarm occurs. Such as go to preset, tour &pattern when there is an alarm. Click “select” button, you can see an interface is shown as in Figure 4-88.
- Record Delay: System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
- Tour: Here you can enable tour function when alarm occurs. System one-window tour.
- Snapshot: You can enable this function to snapshoot image when a motion detect alarm occurs.
- Video matrix Check the box here to enable this function. When an alarm occurs, SPOT OUT port displays device video output. It displays video (1-window tour) from alarm activation channel you select at the Record channel item.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when an alarm occurs.
- Voice prompts: Check the box here to trigger audio broadcast function. You can select specified audio file here. System can play the audio file once the corresponding event occurs.

Please highlight icon to select the corresponding function. After all the setups please click save button, system goes back to the previous menu.

Note:

In motion detection mode, you can not use copy/paste to set channel setup since the video in each channel may not be the same.

In Figure 4-87, you can left click mouse and then drag it to set a region for motion detection. Click Fn to switch between arm/withdraw motion detection. After setting, click enter button to exit.

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Figure 4-86

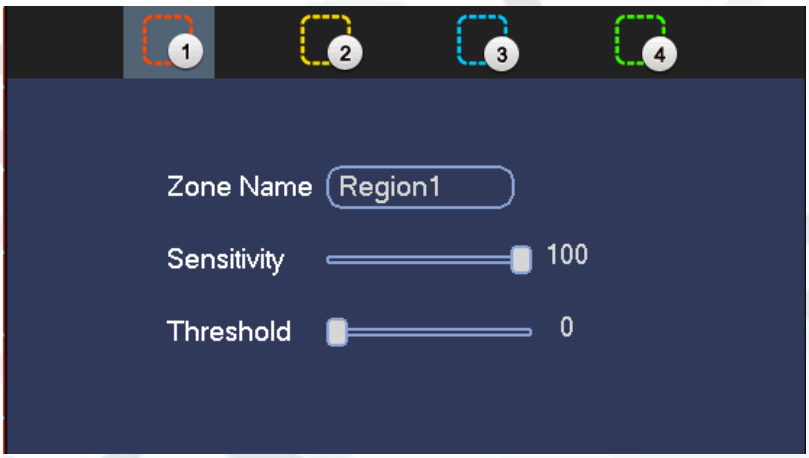

Figure 4-87

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Figure 4-88

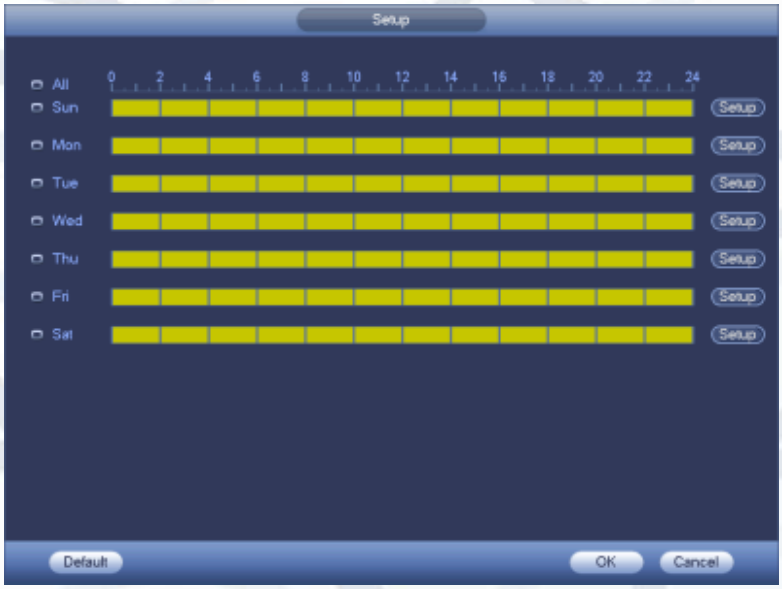

Figure 4-89

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Figure 4-90

Motion detect here only has relationship with the sensitivity and region setup. It has no relationship with other setups.

- Video loss

  In Figure 4-87, select video loss from the type list. You can see the interface is shown as in Figure 4-91.This function allows you to be informed when video loss phenomenon has occurred. You can enable alarm output channel and then enable show message function.

  Tips: You can enable preset/tour/pattern activation operation when video loss occurs.

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Figure 4-91

- Tampering

When someone masks the lens as part of an unauthorised or illegal activity, or the output video is in one-color due to the environments light change, the system can alert you to guarantee video continuity. Tampering interface is shown as in Figure 4-92. You can enable “Alarm output “or “Show message” function when tampering alarm occurs.

- Sensitivity: The value ranges from 1 to 6. It mainly concerns the brightness. The level 6 has the higher sensitivity than level 1. The default setup is 3.

Tips: You can enable preset/tour/pattern activation operation when video loss occurs. Please refer to chapter 4.10.3.1.1 motion detection for detailed information.

Notes:

- In Detect interface, copy/paste function is only valid for the same type, which means you can not copy a channel setup in video loss mode to tampering mode.
- Default function: Since detection channel and detection type may not be the same, system can only restore default setup of current detect type. For example, if you click Default button at the tampering interface, you can only restore default tampering setup. It is null for other detect types.

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- System only enables tampering function during the period you set here. It is null for motion detect or video loss type.

Figure 4-92

- **Alarm**

Before operation, please make sure you have properly connected alarm devices such as buzzer.

In the main menu, from Setting->Event->Alarm, you can see alarm setup interface. See Figure 4-93.

There are four alarm types. See Figure 4-93 to Figure 4-96.

- Local alarm: The alarm signal system detects from the alarm input port.
- Network alarm: It is the alarm signal from the network.
- IPC external alarm: It is the on-off alarm signal from the front-end device and can activate the local HDVR.
- IPC offline alarm: Once you select this item, system can generate an alarm when the front-end IPC disconnects with the local HDVR. The alarm can activate record, PTZ, snap and etc. The alarm can last until the IPC and the HDVR connection resumes.

Important:

- **If it is your first time to boot up the device, the disconnection status of the front-end network camera will not be regarded as offline. After one successfully connection, all the disconnection events will be regarded as IPC offline event.**

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- **When IPC offline alarm occurs, the record and snapshot function of digital channel is null.**

- Alarm in: Here is for you to select channel number.
- Type: normal open or normal close.
- PTZ activation: Here you can set PTZ movement when alarm occurs. Such as go to preset, tour& pattern when there is an alarm. Click “select” button, you can see an interface is shown as in Figure 4-97.
- Period: Click set button, you can see an interface is shown as in Figure 4-98. There are two ways for you to set periods. There are max 6 periods in one day. There are four record types: regular, motion detection (MD), Alarm, MD & alarm.

  In Figure 4-98, Select icon of several dates, all checked items can be edited together. Now the icon is shown as . Click to delete a record type from one period.

  In Figure 4-98. Click button after one date or a holiday, you can see an interface shown as in Figure 4-99. There are four record types: regular, motion detection (MD), Alarm, MD & alarm.

- Anti-dither: Here you can set anti-dither time. Here you can set anti-dither time. The value ranges from 5 to 600s. The anti-dither time refers to the alarm signal lasts time. It can be seem as the alarm signal activation stays such as the buzzer, tour, PTZ activation, snapshot, channel record. The stay time here does not include the latch time. During the alarm process, the alarm signal can begin an anti-dither time if system detects the local alarm again. The screen prompt, alarm upload, email and etc will not be activated. For example, if you set the anti-dither time as 10 second, you can see the each activation may last 10s if the local alarm is activated. During the process, if system detects another local alarm signal at the fifth second, the buzzer, tour, PTZ activation, snapshot, record channel will begin another 10s while the screen prompt, alarm upload, email will not be activated again. After 10s, if system detects another alarm signal, it can generate an alarm since the anti-dither time is out.
- Show message: System can pop up a message to alarm you in the local host screen if you enabled this function.
- Alarm upload: System can upload the alarm signal to the network (including alarm centre) if you enabled current function.
- Send email: System can send out email to alert you when alarm occurs.
- Record channel: you can select proper channel to record alarm video (Multiple choices). At the same time you need to set alarm record in schedule interface (Main Menu->Setting->Schedule) and select schedule record in manual record interface (Main Menu->Advance->Manual Record).

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- Latch: Here is for you to set proper delay duration. Value ranges from 10 to 300 seconds. System automatically delays specified seconds in turning off alarm and activated output after external alarm cancelled.
- Tour: Here you can enable tour function when alarm occurs. System supports
- 1/8-window tour. Please note the tour setup here has higher priority than the tour setup you set in the Display interface. Once there two tours are both enabled, system can enable the alarm tour as you set here when an alarm occurred. If there is no alarm, system implements the tour setup in the Display interface.
- Snapshot: System can snapshot the corresponding channel when an alarm occurs. Please note the activation snapshot has the higher priority than schedule snapshot. If you have enabled these two types at the same time, system can activate the activation snapshot when alarm occurs, and otherwise system just operates the schedule snapshot.
- Video matrix: Check the box here to enable this function. When an alarm occurs, SPOT OUT port displays device video output. It displays video (1-window tour) from alarm activation channel you select at the Record channel item.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when an alarm occurs.
- Voice prompts: Check the box here to trigger audio broadcast function. You can select specified audio file here. System can play the audio file once the corresponding event occurs.

Note: network alarm means the alarm signal from the TCP/IP. You can use NET SDK to activate network alarm. Comparing with the local alarm, there is no type, anti-dither, alarm upload function.

Please highlight icon ■ to select the corresponding function. After setting all the setups please click save button, system goes back to the previous menu.

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Figure 4-93

Figure 4-94

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Figure 4-95

Figure 4-96

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Figure 4-97

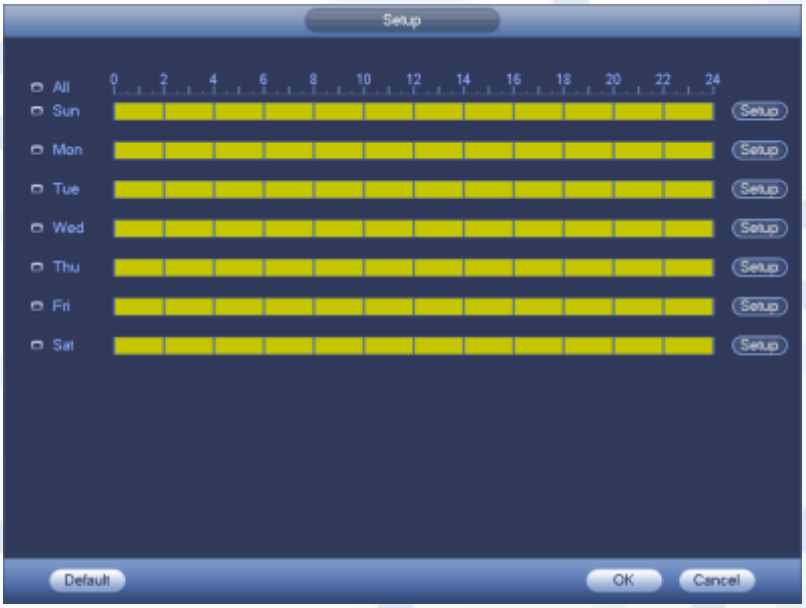

Figure 4-98

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Time Period
Current Date: Sun
Period 1 00 : 00 - 24 : 00
Period 2 00 : 00 - 24 : 00
Period 3 00 : 00 - 24 : 00
Period 4 00 : 00 - 24 : 00
Period 5 00 : 00 - 24 : 00
Period 6 00 : 00 - 24 : 00
Copy
All
Sun Mon Tue Wed Thu Fri Sat
Save

Figure 4-99

- **Abnormality**
  There are two types: HDD & Network

  - HDD: HDD error, no disk, no space. See Figure 4-100 and Figure 4-101.
  - Network: Disconnection, IP conflict, MAC conflict. See Figure 4-102.

  - Alarm output: Please select alarm activation output port (multiple choices).
  - Less than: System can alarm you when the HDD space is less than the threshold you set here (For HDD no space type only).
  - Latch: Here you can set corresponding delaying time. The value ranges from 1s-300s. System automatically delays specified seconds in turning off alarm and activated output after external alarm cancelled.
  - Show message: system can pop up the message in the local screen to alert you when alarm occurs.
  - Alarm upload: System can upload the alarm signal to the network (including alarm centre) if you enabled current function. For disconnection event, IP conflict event and MAC conflict event, this function is null.
  - Send email: System can send out email to alert you when alarm occurs.
  - Buzzer: Highlight the icon to enable this function. The buzzer beeps when an alarm occurs.
  - Voice prompts: Check the box here to trigger audio broadcast function. You can select specified audio file here. System can play the audio file once the corresponding event occurs.

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Figure 4-100

Figure 4-101

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Figure 4-102

- **Alarm Output**

  Here is for you to set proper alarm output such as schedule, manual.

  Please highlight icon ■ to select the corresponding alarm output.

  After all the setups please click OK button, system goes back to the previous menu. See Figure 4-103.

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Figure 4-103

4.10.4 Storage

- Schedule
  - Record

Notes:

- You need to have proper rights to implement the following operations. Please make sure the HDDs have been properly installed.
- After the system booted up, it is in default 24-hour regular mode. You can set record type and time in schedule interface.

In the main menu, from **Setting->Storage->Schedule**, you can go to schedule menu. See Figure 4-107.

Please note you need to go to **main menu->Setting->System->General->Holiday** to set holiday date first, otherwise, there is no holiday setup item.

- Channel: Please select the channel number first. You can select “all” if you want to set for the whole channels.
  - : Sync connection icon. Select icon of several dates, all checked items can be edited together. Now the icon is shown as .
  - : Click it to delete a record type from one period.
- Record Type: Please check the box to select corresponding record type. There are four types: Regular/MD (motion detect)/Alarm/MD&Alarm.
- Week day: There are eight options: ranges from Saturday to Sunday and all.

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- Holiday: It is to set holiday setup. Please note you need to go to the General interface (Main Menu->System->General) to add holiday first. Otherwise you can not see this item.
- Pre-record: System can pre-record the video before the event occurs into the file. The value ranges from 1 to 30 seconds depending on the bit stream.
- Redundancy: System supports redundancy backup function. You can highlight Redundancy button to activate this function. Please note, before enable this function, please set at least one HDD as redundant. (Main menu->Setting->Storage->HDD Manager). Please note this function is null if there is only one HDD.
- Period setup: Click button after one date or a holiday, you can see an interface shown as in Figure 4-108.There are four record types: regular, motion detection (MD), Alarm, MD & alarm.

Please following the steps listed below to draw the period manually.

- Select a channel you want to set. See Figure 4-104.

Figure 4-104

- Set record type. See Figure 4-105.

Figure 4-105

- Please draw manually to set record period. There are six periods in one day. See Figure 4-106.

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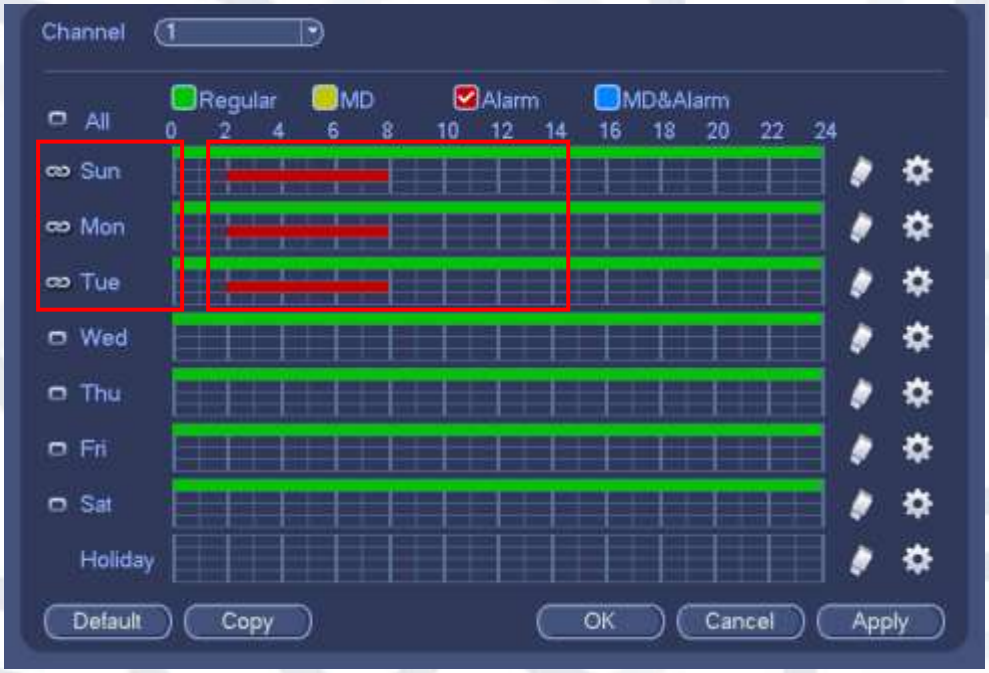

Figure 4-106

Please highlight icon ■ to select the corresponding function. After completing all the setups please click save button, system goes back to the previous menu.

There are color bars for your reference. Green color stands for regular recording, yellow color stands for motion detection and red color stands for alarm recording. The white means the MD and alarm record is valid. Once you have set to record when the MD and alarm occurs, system will not record neither motion detect occurs nor the alarm occurs.

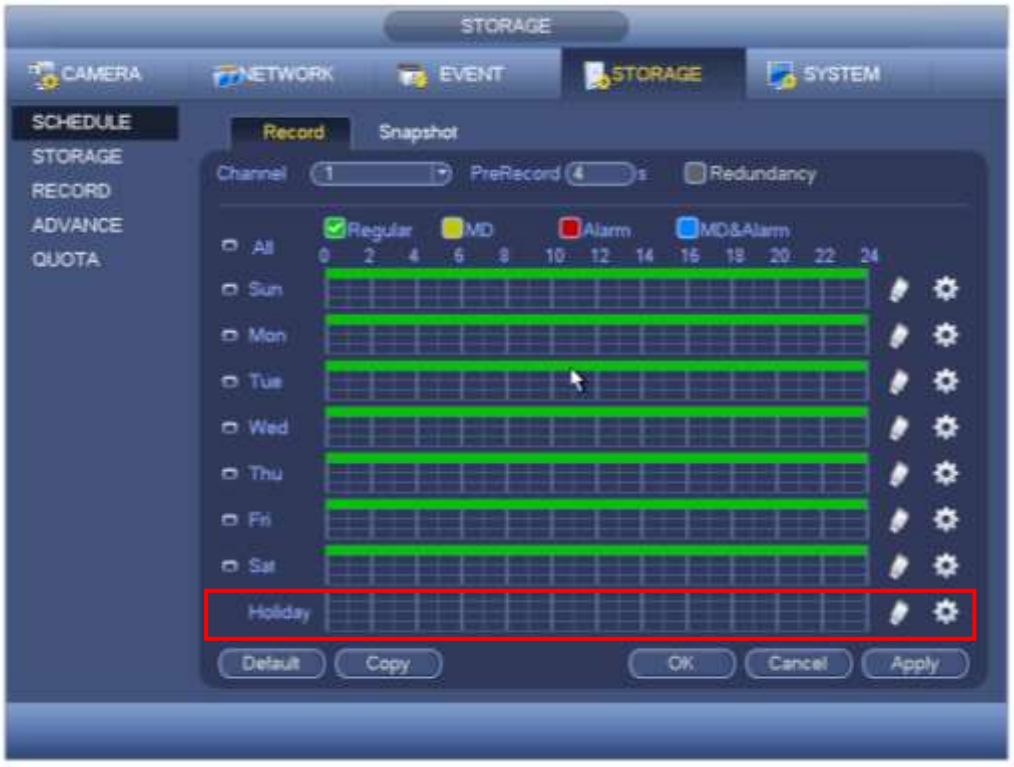

Figure 4-107

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Figure 4-108

- Quick Setup:
  Copy function allows you to copy one channel setup to another. After setting in channel 1, click Copy button, you can go to interface Figure 4-109. You can see current channel name is grey such as channel 1. Now you can select the channel you wan to paste such as channel 5/6/7. If you wan to save current setup of channel 1 to all channels, you can click the first box “ALL”. Click the OK button to save current copy setup. Click the OK button in the Encode interface, the copy function succeeded.

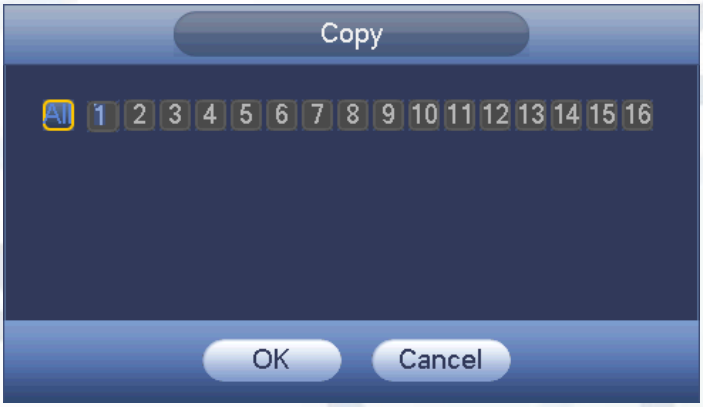

Figure 4-109

- Redundancy:
  Redundancy function allows you to memorize record file in several disks. When there is file damage occurred in one disk, there is a spare one in the other disk. You can use this function to maintain data reliability and safety.

  - In the main menu, from **Setting->Storage-> Schedule**, you can highlight redundancy button to enable this function.
  - In the main menu, from **Main menu->Setting->Storage->HDD Manager**, you can set one or more disk(s) as redundant. You can

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select from the dropdown list. System auto overwrites old files once hard disk is full.

Please note only read/write disk or read-only disk can backup file and support file search function, so you need to set at least one read-write disk otherwise you can not record video.

Note about redundancy setup:

- If the current channel is not recording, current setup gets activated when the channel begin recording the next time.
- If the current channel is now recording, current setup will get activated right away, the current file will be packet and form a file, then system begins recording as you have just set.

After all the setups please click save button, system goes back to the previous menu. Playback or search in the redundant disk.

There are two ways for you to playback or search in the redundant disk.

- Set redundant disk(s) as read-only disk or read-write disk (Main menu->Setting->Storage->HDD Manager)). System needs to reboot to get setup activated. Now you can search or playback file in redundant disk.
- Dismantle the disk and play it in another PC.

- Snapshot: Snapshot schedule
  - On the preview interface, right click mouse and then select **Manual->Record**, or in the main menu, from **Setting->Storage->Record**, check the box to enable snapshot function of corresponding channels. See Figure 4-110.
  - In main menu, from **Setting->Camera->Encode->Snapshot interface**, here you can input snapshot mode as regular, size, quality and frequency. See Figure 4-111.
  - In main menu, from **Setting->Camera->Encode->Schedule interface**, please enable snapshot function. See interface on the right of Figure 4-112.

Please refer to the following figure for detailed information.

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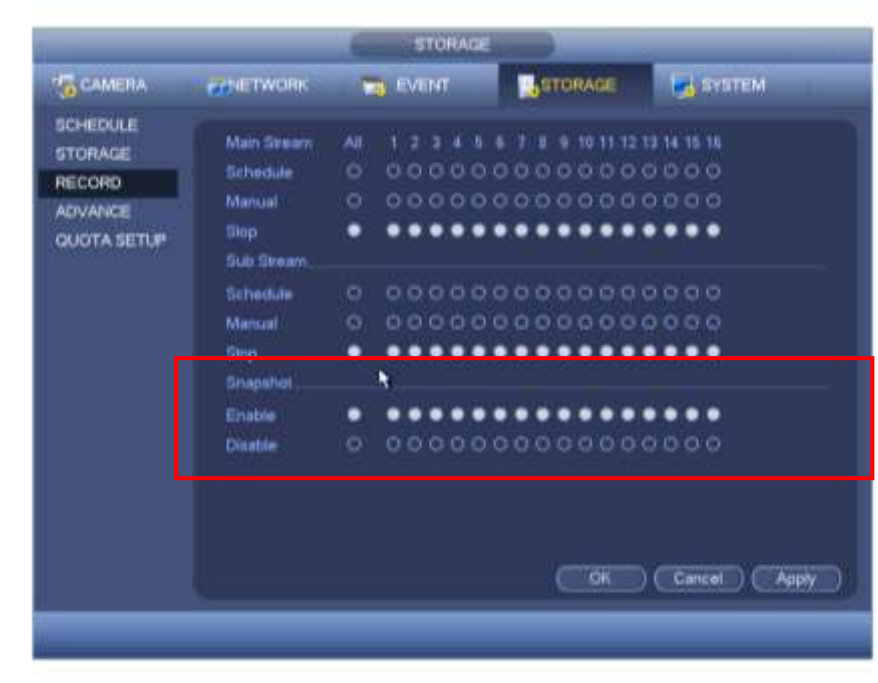

Figure 4-110

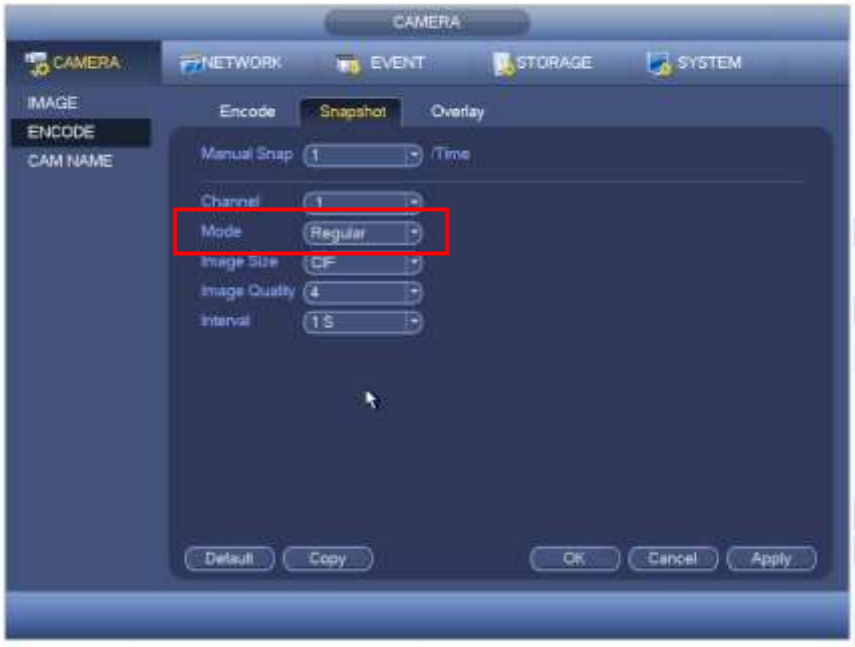

Figure 4-111

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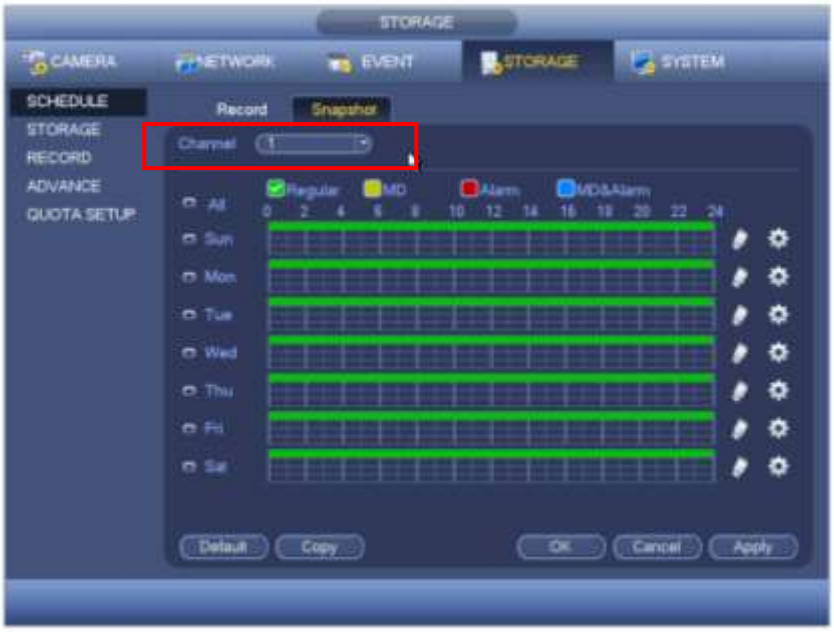

Figure 4-112

- Snapshot: Trigger snapshot
  Please follow the steps listed below to enable the activation snapshot function. After you enabled this function, system can snapshot when the corresponding alarm occurred.

  - In main menu, from **Setting->Camera->Encode->Snapshot interface**, here you can input snapshot mode as trigger, size, quality and frequency. See Figure 4-113.
  - In main menu, from **Setting->Event->Detect**, please enable snapshot function for specified channels (Figure 4-114). Or In main menu, from **Setting->Event->Alarm** (Figure 4-115) please enable snapshot function for specified channels.

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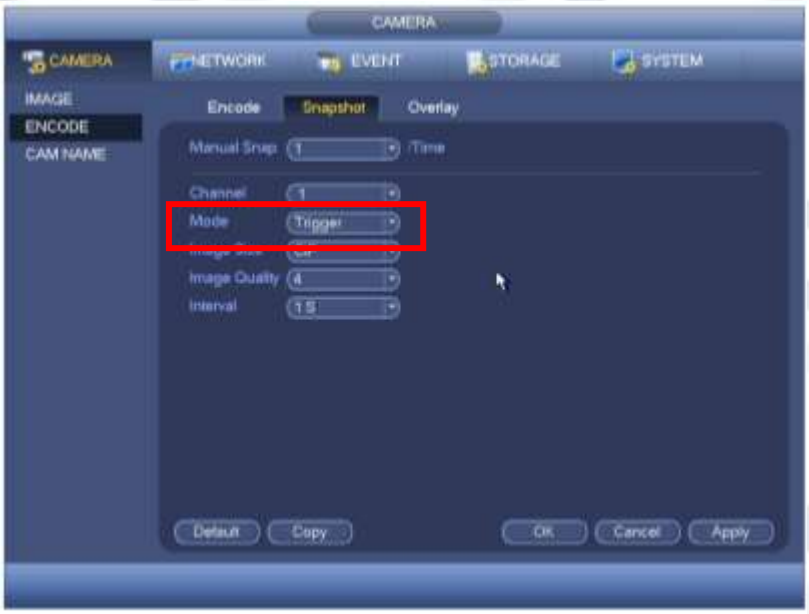

Figure 4-113

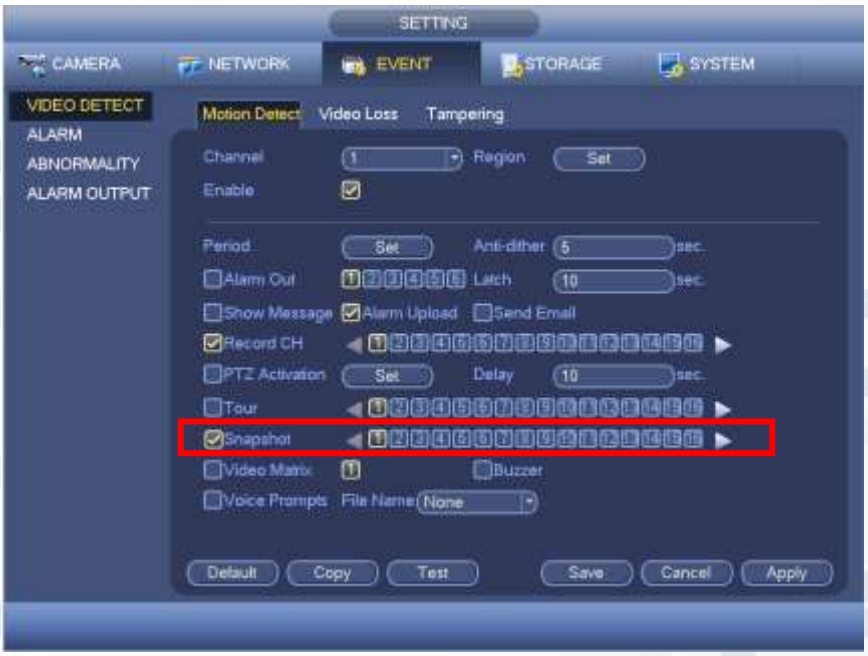

Figure 4-114

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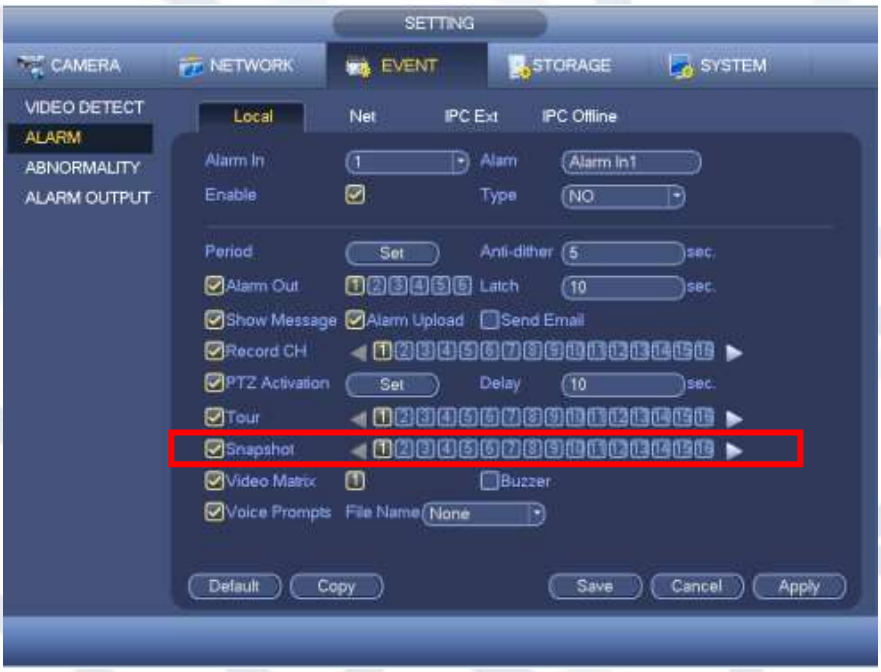

Figure 4-115

- Snapshot: Priority
  Please note the activation snapshot has the higher priority than schedule snapshot. If you have enabled these two types at the same time, system can activate the activation snapshot when alarm occurs, and otherwise the system just operates the scheduled snapshot.

- Snapshot: Image FTP
  In the main menu, from **Setting->Network->FTP**, you can set FTP server information. Please enable FTP function and then click save button. See Figure 4-116.

  Please boot up corresponding FTP server.

  Please enable schedule snapshot or activation snapshot first, now system can upload the image file to the FTP server.

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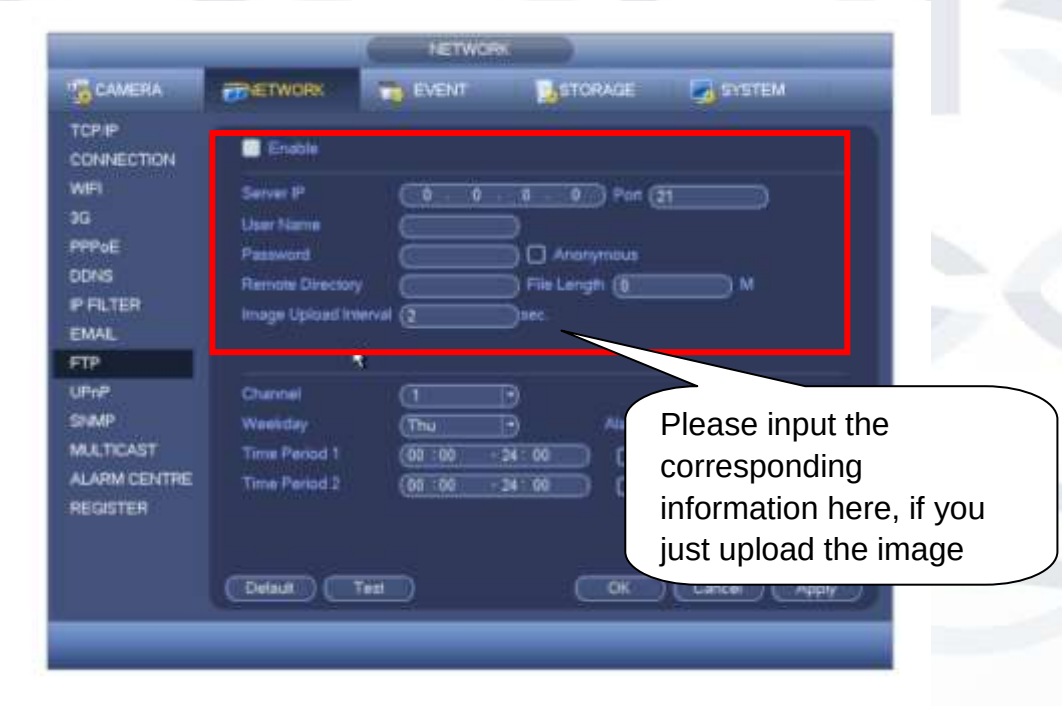

Figure 4-116

- **HDD Manager**

  Here is for you to view and implement hard disk management. See Figure 4-117.

  You can see current HDD type, status, capacity and etc. The operation includes format HDD, and change HDD property (read and write/read-only/redundancy).

Figure 4-117

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- **Record**
  - Record Control

Note: You need to have proper rights to implement the following operations. Please make sure the HDD has been properly installed.

There are three ways for you to go to manual record menu.

- Right click mouse and then select **Manual->Record.**
- In the main menu, from **Setting->Storage->Record.**
- In live viewing mode, click record button in the front panel or record button in the remote control.

System supports main stream and sub stream. There are three statuses: schedule/manual/stop. See Figure 4-118. Please highlight icon “○” to select corresponding channel.

- Manual: The highest priority. After manual setup, all selected channels will begin ordinary recording.
- Schedule: Channel records as you have set in recording setup (Main Menu->Setting->System->>Schedule)
- Stop: Current channel stops recording.
- All: Check All button after the corresponding status to enable/disable all-channel schedule/manual record or enable/disable all channels to stop record.

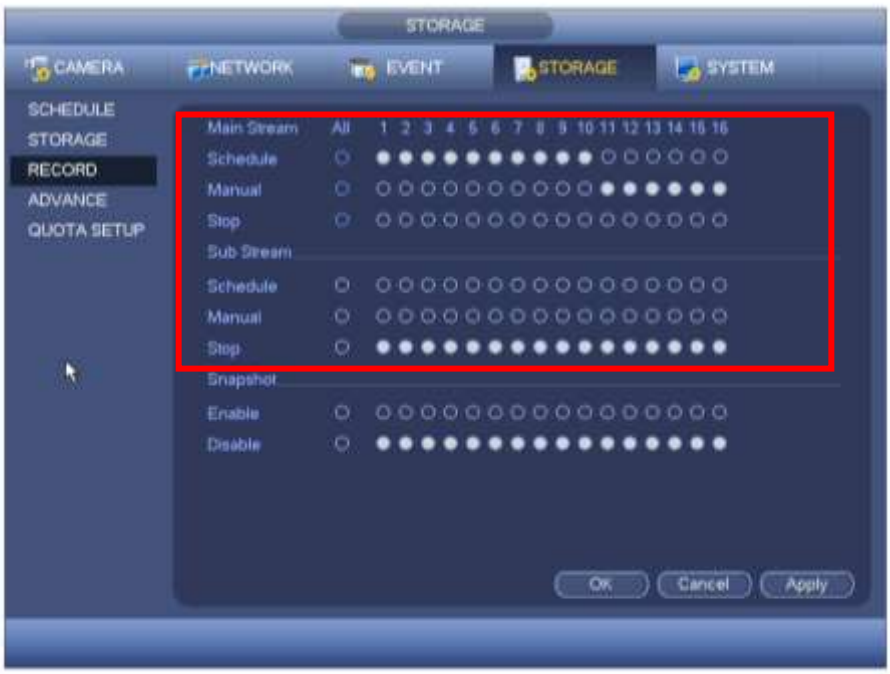

Figure 4-118

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- Snapshot Operation:

Check the corresponding box to enable/disable schedule snapshot function. See Figure 4-119.

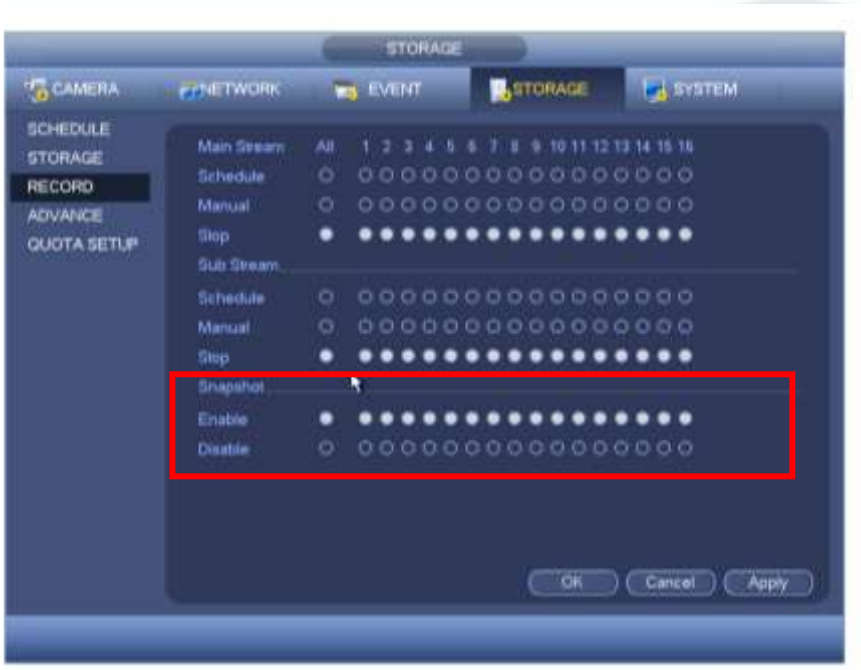

Figure 4-119

Tips: You can check All button after the corresponding status to enable/disable all-channel snapshot function.

- **Advanced**

It is to set HDD group, and HDD group setup for main stream, sub stream and snapshot operation

- HDD:

Important: HDD group and quota mode can not be valid at the same time. System needs to restart once you change the mode here.

The HDD group mode is shown as in Figure 4-120.

- HDD: Here you can view the HDD amount the device can support.
- Group: It lists the HDD Group number of current hard disk.

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Figure 4-120

Please select the correspond group from the dropdown list and then click Apply button. Click main stream/sub stream/snapshot button to set corresponding HDD group information. See Figure 4-121.

Figure 4-121

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Figure 4-122

Figure 4-123

- **Quota**

Here you can set channel storage capacity. See Figure 4-124.

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Select a channel from the dropdown list and then select corresponding HDD quota.

Figure 4-124

Click Quota Statistics, you can go to the following interface. You can view HDD capacity you set for each channel. See Figure 4-125.

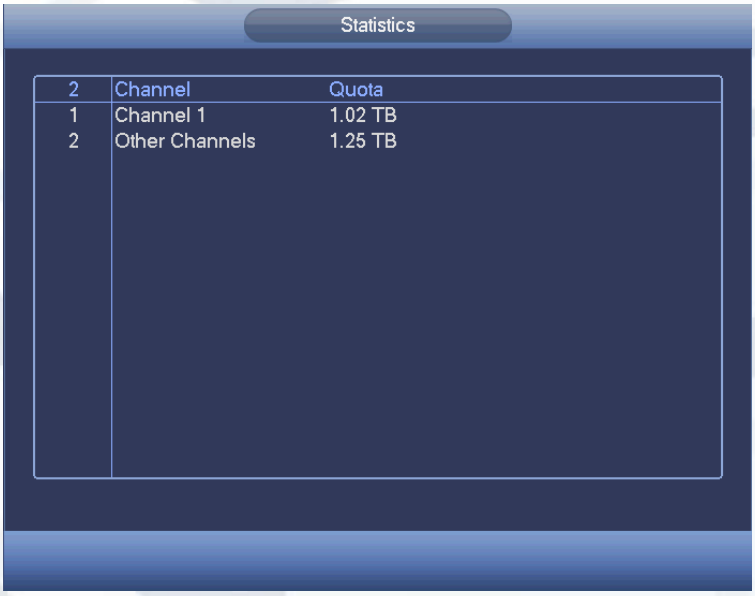

Figure 4-125

- **HDD Detect**

  The HDD detect function is to detect HDD current status so that you can clearly understand the HDD performance and replace the malfunction HDD.

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There are two detect types:

- Quick detect is to detect via the universal system files. System can quickly complete the HDD scan. If you want to use this function, please make sure the HDD is in use now. If the HDD is removed from other device, please make sure the write-data once was full after it installed on current device.
- Global detect adopts Windows mode to scan. It may take a long time and may affect the HDD that is recording.

- Manual Detect:
  The manual detect interface is shown as below. See Figure 4-126.

  Please select detect type and HDD. Click start detect to begin. You can view the corresponding detect information.

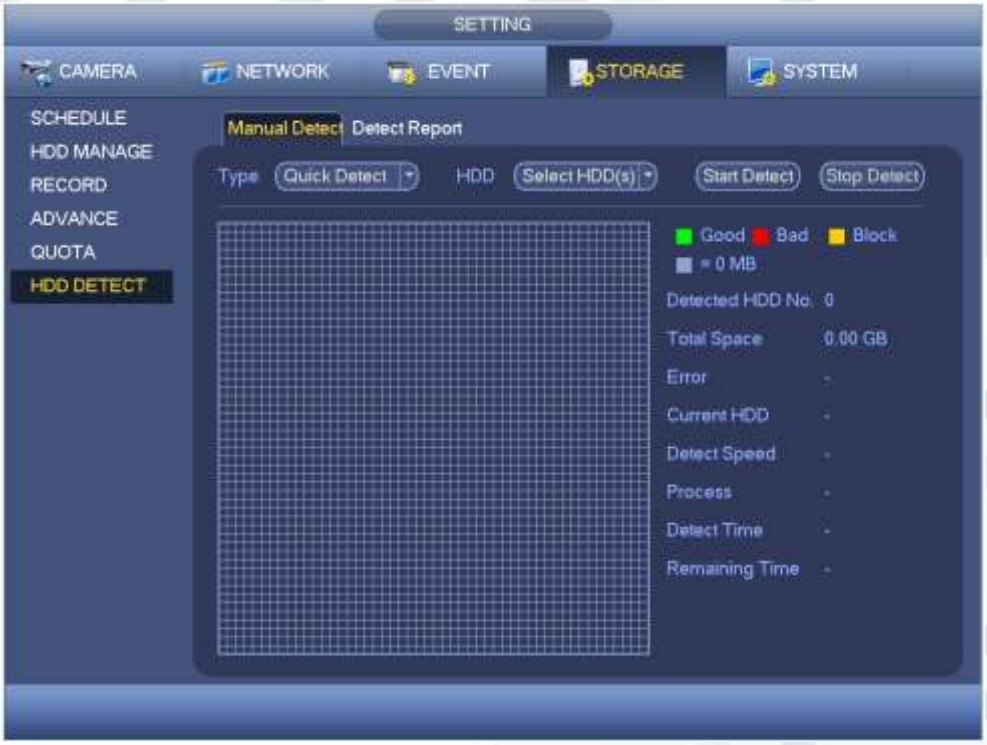

Figure 4-126

- Detect Report:
  After the detect operation, you can go to the detect report to view corresponding information.

  The detect report interface is shown as below. See Figure 4-127.

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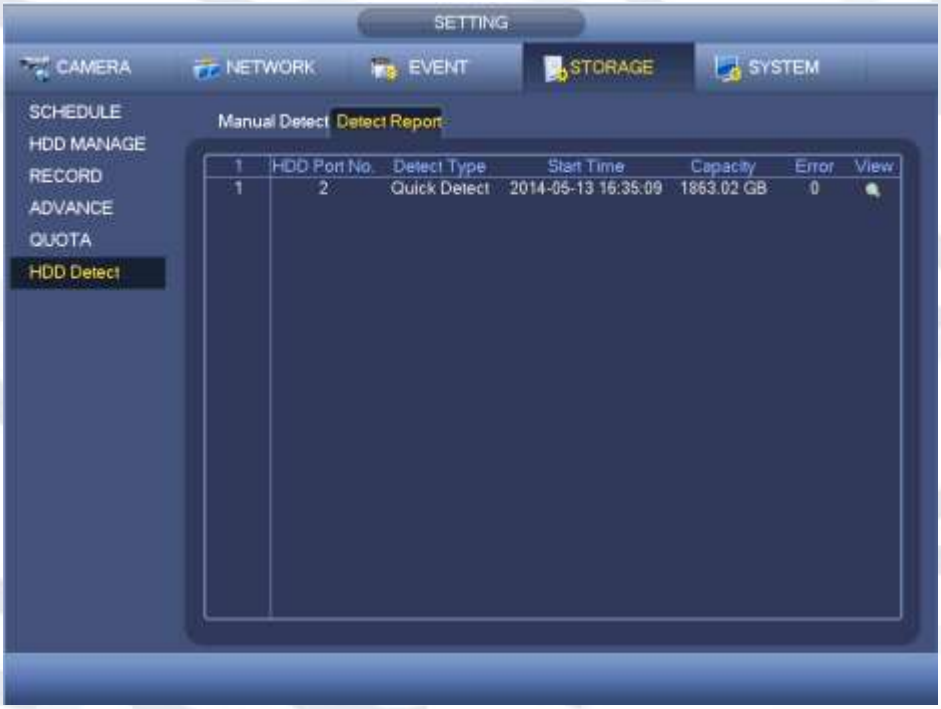

Figure 4-127

Click View, you can see the detailed information such as detect result, backup and S.M.A.R.T. See Figure 4-128 and Figure 4-129.

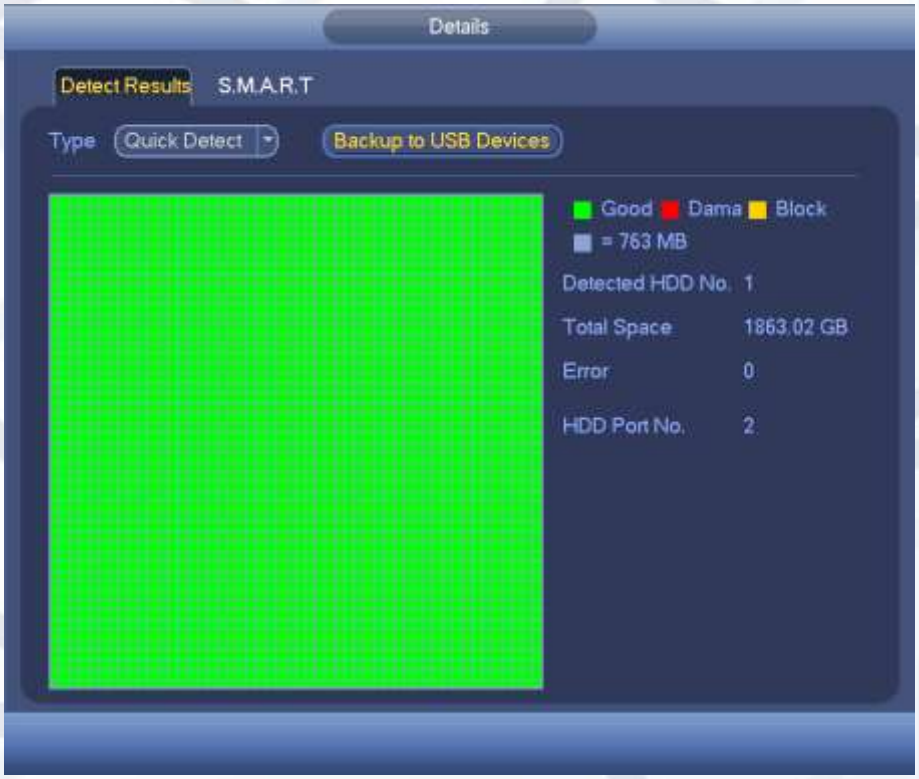

Figure 4-128

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Details
Detect Results
S.M.A.R.T
Port 2
Modle ST2000VX000-1CU164
No. W1E55V8Y
Status Worse
Describe:
Smart ID Attribute Threshold Value Worst Value Statu
1 Read Error Rate 6 116 99 OK
3 Spin Up Time 0 97 96 OK
4 Start/Stop Count 20 100 100 OK
5 Reallocated Sector Count 10 100 100 OK
7 Seek Error Rate 30 63 60 OK
9 Power On Hours Count 0 99 99 OK
10 Spin-up Retry Count 97 100 100 OK
12 Power On/Off Count 20 100 100 OK
184 Unkown Attribute 99 100 100 OK
187 Reported Uncorrect 0 100 100 OK

Figure 4-129

4.10.5 System

- **General**
  - Device

    General setting includes the following items. See Figure 4-130.
    - Device ID: Please input a corresponding device name here.
    - Device No: Here you can set device number.
    - Language: System supports various languages: Chinese (simplified), Chinese (Traditional), English, Italian, Japanese, French, Spanish (All languages listed here are optional).
    - Video standard: There are two formats: NTSC and PAL.
    - HDD full: Here is for you to select working mode when hard disk is full. There are two options: stop recording or rewrite. If current working HDD is overwritten or the current HDD is full while the next HDD is no empty, then system stops recording, If the current HDD is full and then next HDD is not empty, then system overwrites the previous files.
    - Pack duration: Here is for you to specify record duration. The value ranges from 1 to 120 minutes. Default value is 60 minutes.
    - Real-time playback: It is to set playback time you can view in the preview interface. The value ranges from 5 to 60 minutes.
    - Auto logout: Here is for you to set auto logout interval once user login remains inactive for a specified time. Value ranges from 0 to 60 minutes.
    - Navigation bar: Check the box here, system displays the navigation bar on the interface.

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- Startup wizard: Once you check the box here, system will go to the startup wizard directly when the system restarts the next time. Otherwise, it will go to the login interface.
- Mouse property: You can set double click speed via dragging the slide bar. You can click the Default button to restore default setup.

Figure 4-130

- Date and Time

The interface is shown as in Figure 4-131.

- Date format: There are three types: YYYYY-MM-DD: MM-DD-YYYYY or DD-MM-YYYY.
- Date separator: There are three denotations to separate the date: dot, beeline and solidus.
- DST: Here you can set DST time and date. Here you can set start time and end time by setting the corresponding week setup or by setting corresponding date setup.
- NTP: It is to set NTP server information.

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Figure 4-131

- Holiday

  Holiday setup interface is shown as in Figure 4-132. Click Add new holiday button, you can input new holiday information. See Figure 4-133. Here you can set holiday name, repeat mode and start/end time.

  Notes:

  - When you enable Holiday settings and schedule setup at the same time, the holiday setting has the priority. If the selected day is a holiday, then system records as you have setup the holiday setting. If it is not a holiday, system records how you have setup the Schedule interface.
  - Please note, there is no year setup on the holiday setup. For example, if you set 30th Oct, 2012 as a holiday, then the date of 30th Oct in each year will be set as a holiday.

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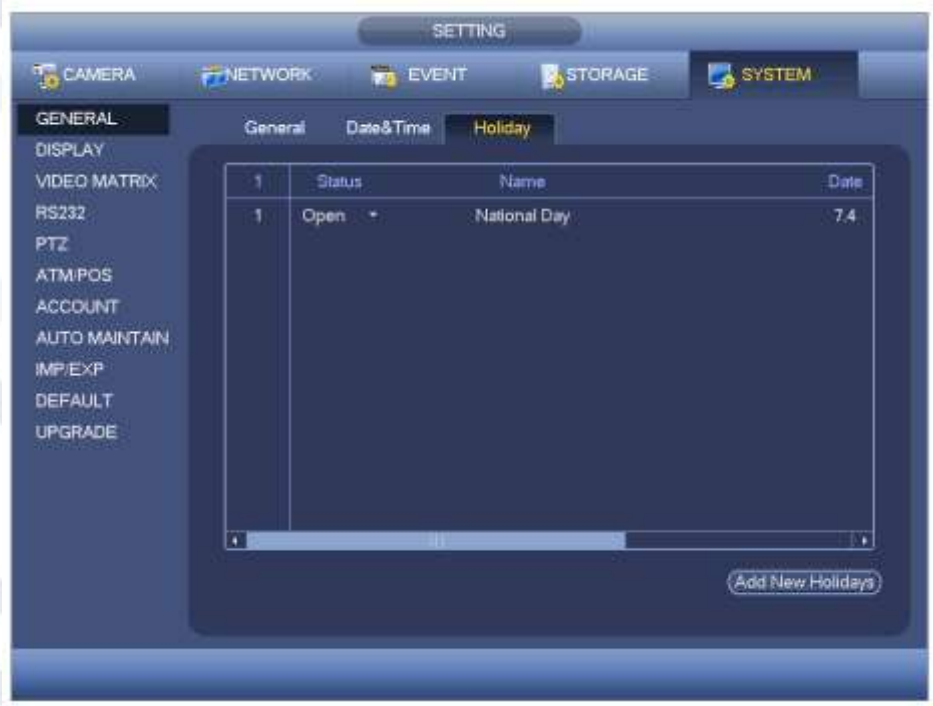

Figure 4-132

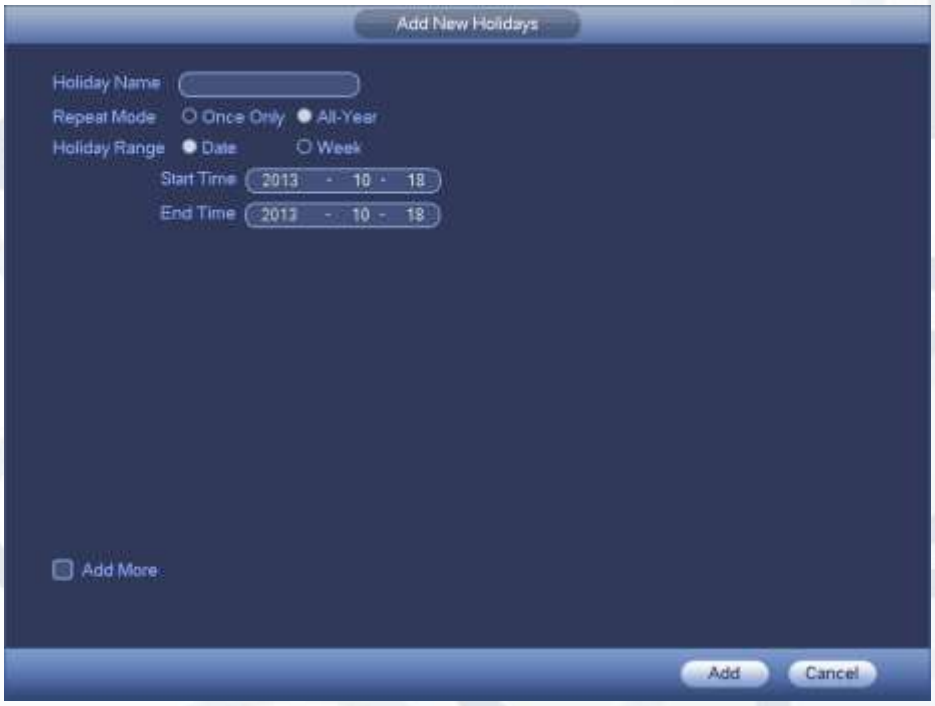

Figure 4-133

- **Display**
  - Display

    Display setup interface is shown as below. See Figure 4-134.

    - Transparency: Here is for you to adjust transparency. The value ranges from 128 to 255.
    - Channel name: Here is for you to modify channel name. System max support 25-digits. Please note all your modification here only

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applies to DVR local end. You need to open web or client end to refresh channel name.

- Time display: You can select to display time or not when system is playback.
- Channel display: You can select to channel name or not when system is playback.
- Resolution: There are four options: 1920×1080, 1280×1024 (default), 1280× 720, 1024×768. Please note the system needs to reboot to activate current setup.
- Image enhance: Check the box; you can optimise the margin of the preview video.
- Preview denoise: This is to reduce the video noise and make it clearer. You can set the denoise level. The higher the level is, the clearer the video is.

Please highlight the icon to select the corresponding function. After completing all the setups please click save button, system goes back to the previous menu.

Figure 4-134

▪ TV Adjust

Here is for you to adjust TV output setup. See Figure 4-135. Please drag slide bar to adjust each item. After all the setups are complete please click OK button, system goes back to the previous menu.

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Figure 4-135

- Tour

  Here you can activate tour function. Click the Setup button, you will see an interface shown as in Figure 4-136.

  - Enable tour: Highlight box here to enable this function.
  - Interval: System supports 1/8/-window tour. Input proper interval value here. The value ranges from 5-120 seconds. This is for the schedule tour/alarm/motion detect tour.
  - Split: You can select window split mode from the dropdown list.
  - Channel group: This is to display all channel groups on current split mode. You can edit and delete a channel group here. Double click an item in the list; you can edit its channel group setup. Right now system supports a maximum of 32.
  - Add: Under specified window split mode, click it to add channel group.
  - Delete: Click it to remove selected channel group.
  - Move up: Click it to move current selected channel up.
  - Move down: Click it to move current selected channel down.
  - Default: Click it to restore default setup.

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Tips:

- Use mouse or Shift button to switch and button to enable /disable tour. symbol means that the tour funciton is enabled and meas tour function is disabled.
- On the navigation bar, click or to enable/disable tour function.

Figure 4-136

- Zero-channel Encoding

  Click zero-channel encoding button, you will then go to the following interface. See Figure 4-137.Here you can enable and set zero-channel encoding function so that you can view several video sources at one channel.

  - Enable: This function is disabled by default. Check the box here to enable this function so that you can control the zero-channel encoding function at the WEB.
  - Save: Click the Save button to save current setup. If this function is disabled, you cannot operate zero-channel encoding function via a remote internet connection, the video is black or null even if you operate when the function is disabled. After you have enabled this function, login into the web browser remote viewing interface and select zero-channel encoding mode at the

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right corner of the interface . Select a mode; you can now view the local preview video.

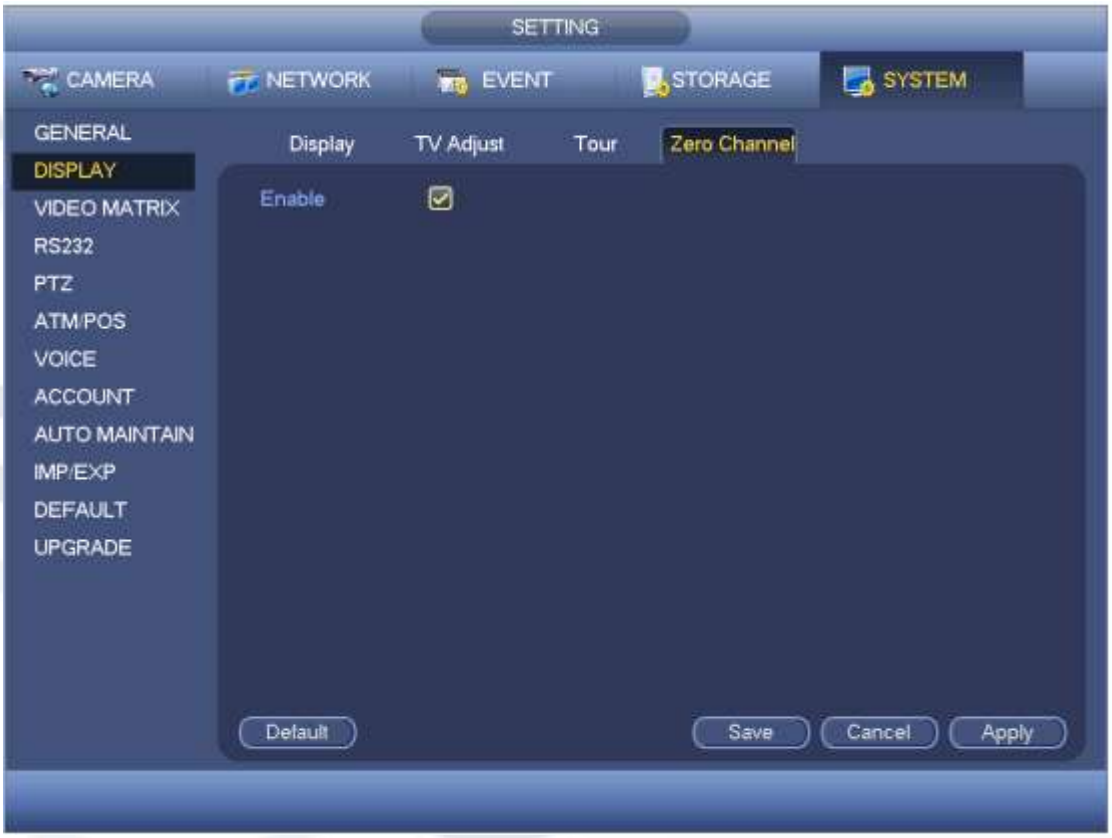

Figure 4-137

- **Video Matrix**
  - BNC

  Here you can set the matrix output channel and its interval. System supports 1/4-window and more with the SPOT tour. See Figure 4-138.

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Figure 4-138

- HDMI
  The HDMI interface is shown as in Figure 4-139. It is to set the HD video matrix output tour function of the HDMI port 2. You can set tour channel, resolution, and interval. System support 1/4-window tour.

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Figure 4-139

- **RS232**

  RS232 interface is shown as below. There are five items. See Figure 4-140.

  - Function: There are various devices for you to select. Console is for you to use the COM or mini-end software to upgrade or debug the program. The control keyboard is for you to control the device via the special keyboard. Transparent COM (adapter) is to connect to the PC to transfer data directly. Protocol COM is for card overlay function. Network keyboard is for you to use the special keyboard to control the device. PTZ matrix is to connect to the peripheral matrix control.
  - Baud rate: You can select proper baud rate.
  - Data bit: You can select proper data bit. The value ranges from 5 to 8.
  - Stop bit: There are two values: 1/2.
  - Parity: There are five choices: none/odd/even/space mark.
  - System default setup is:
    - Function: Console
    - Baud rate: 115200
    - Data bit: 8
    - Stop bit: 1
    - Parity: None

After completing all the setups please click the save button, the system goes back to the previous menu.

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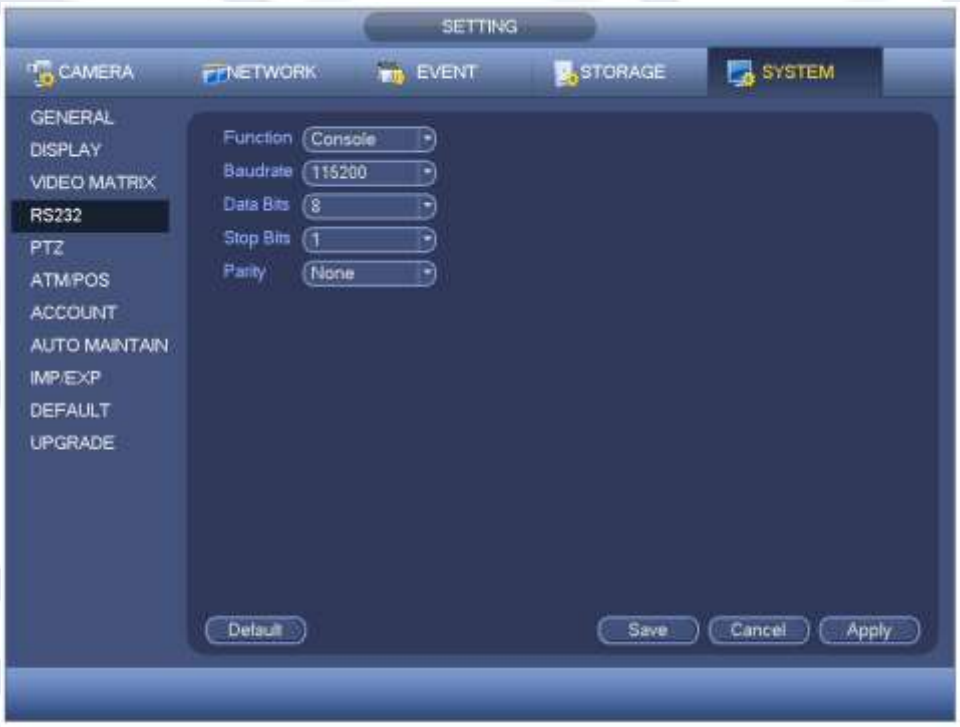

Figure 4-140

- **PTZ**

  The pan/tilt/zoom setup includes the following items. Please select channel first. See Figure 4-141.

  - PTZ type: There are two options: local/remote. Please select remote if you are connecting to the network PTZ.
  - Protocol: Select corresponding PTZ protocol such as PELCO-D.
  - Address: input corresponding PTZ address.
  - Baud rate: Select baud rate.
  - Data bit: Select data bit.
  - Stop bit: Select stop bit.
  - Parity: There are three choices: none/odd/even.

  After completed all the setups please click save button, system goes back to the previous menu.

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Figure 4-141

- **ATM/POS**

  The ATM/POS function is for financially related monitoring areas. It includes Sniffer, information analysis and title overlay functions. The Sniffer mode includes COM and network.

  - COM Type

    The COM interface is shown as below. See Figure 4-142.

    - Protocol: Please select from the dropdown list.
    - Setting: Click COM setting button, the interface is shown as in RS232 interface. Please refer to Chapter 5.3.4 RS232.
    - Overlay channel: Please select the channel you want to overlay the card number.
    - Overlay mode: There are two options: preview and encode. Preview means overlay the card number in the local monitor video. Encode means overlay the card number in the record file.
    - Overlay Position: Here you can select the proper overlay position from the dropdown list.

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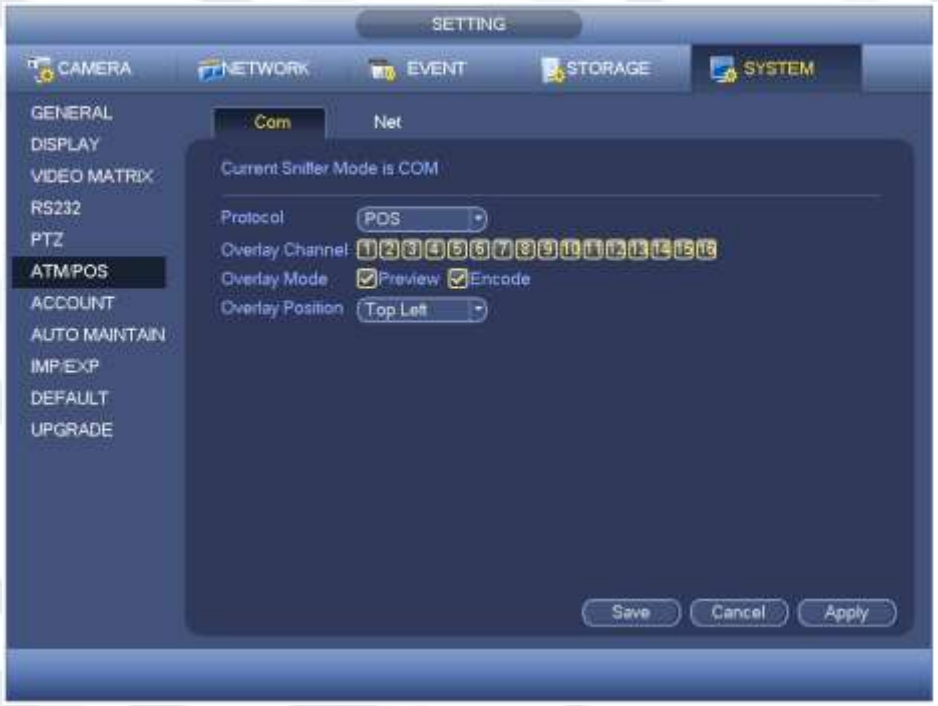

Figure 4-142

- Network Type

  The network type interface is shown as below. See Figure 4-143. Here we take the ATM/POS protocol to continue.

  There are two types: with or without the protocol according to client's requirements.

  With the protocol:

  For ATM/POS with the protocol, you just need to set the source IP, destination IP (sometimes you need to input corresponding port number).

Figure 4-143

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Without the protocol

- For the ATM/POS without the protocol, the interface is shown as in Figure 4-144.

- Source IP refers to host IP address that sends out information (usually it is the device host) .

- Destination IP refers to other systems that receive information.

- Usually you do not need to set source port and target port.

- There are total of four IP groups. The record channel applies to one group (optional) only. Six frame ID groups verification can guarantee information validity and legal.

Figure 4-144

- **Voice**

The audio function is to manage any audio files on the system and set the schedule play function. It allows you to carry out an audio broadcast activation function.

- File List

Here you can add audio file, listen to the audio file, or rename/delete audio file. Here you can also set audio volume. See Figure 4-145A.

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Figure 4-145A

Click Add button, you can add audio file and import the audio file via the USB device. See Figure 5-145B.

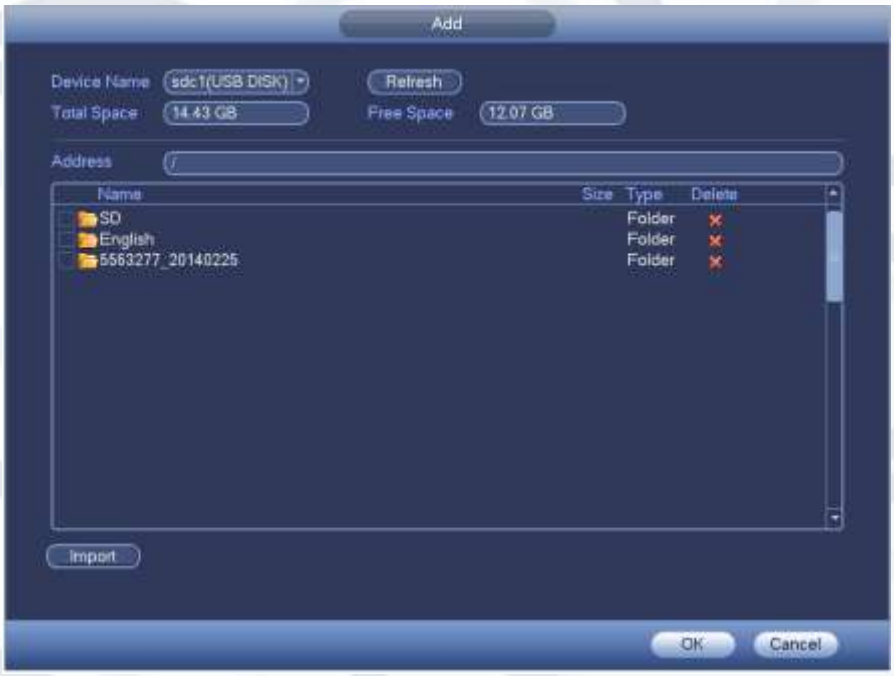

Figure 4-145B

- Schedule

This menu is to set the schedule broadcast function. You can play the different audio files in the specified periods. See Figure 4-146.

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Figure 4-146

○ **Account**

This menu is for you to implement account management. See Figures 4-147 & 4-148.

Here you can:

- Add new user
- Modify user
- Add group
- Modify group
- Modify password

For account management please note:

- For the user account name and the user group, the string max length is 6-bytes. The backspace in front of or at the back of the string is invalid. There can be a backspace in the middle. The string includes the valid character, letter, number, underline, subtraction sign, and dot.
- The default user amount is 64 and the default group amount is 20. System account adopts two-level management: group and user. No limit to group or user amount.
- For group or user management, there are two levels: admin and user.
- The user name and group name can consist of eight bytes. One name can only be used once. There are four default users: admin/888888/666666 and hidden user “default”. Except user 6666, other users have administrator right.
- Hidden user “default” is for system interior use only and can not be deleted. When there is no login user, hidden user “default” automatically login. You can set some rights such as monitor for this user so that you can view some channel view without login.

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- One user should belong to one group. User right can not exceed group right.
- The reusable function: this function allows multiple users use the same account to login.
- The user account and MAC: When you add a new user, you can input the MAC address of current user, but only the user of the same MAC address can access the device remotely (MAC address is for the device of the same LAN). If you leave the MAC address item blank when you add a new user, the user of any MAC address can access the device remotely. You can set or change MAC address when you add or modify a user. The MAC address function is also valid for PSS login. Please note current function does not support IPV6.

After all the setups please click save button, system goes back to the previous menu.

Figure 4-147

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Figure 4-148

- Add/Modify Group

  Click the add group button, the interface is shown as below. See Figure 4-149.

  Here you can input the group name and then input some memo information if necessary. There are a total of 98 rights to grant the selected group, such as control panel, shut down, real-time monitor, playback, record, record file backup, PTZ, user account, system information view, alarm input/output setup, system setup, log view, clear log, upgrade system, control device, etc.

  The modify group interface is similar to the Figure 4-149.

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Figure 4-149

- Add/Modify User
  - Click the add user button, the interface is shown as in Figure 4-150.
  - Please input the user name, password, select the group it belongs to from the dropdown list.
  - Then you can check the corresponding rights for current user.
  - For convenient user management, usually we recommend the general user right is lower than the admin account.
  - The modify user interface is similar to Figure 4-153.

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Figure 4-150

When you create a new user, you can input the corresponding MAC address of current user. If you leave this item blank, any MAC address user can share this user account to login. Please note system needs to check the validity of the MAC. Only the 12-digit 0-f format address can pass the validity verification. System only saves small character even you input capitalised one. You can see the corresponding prompt if there is any illegal input.

- **Auto Maintain**

Here you can set auto-reboot time and auto-delete old files setup. You can set to delete the files for the specified days. See Figure 4-151.

You can select proper setup from dropdown list.

After all the setups please click save button, system goes back to the previous menu.

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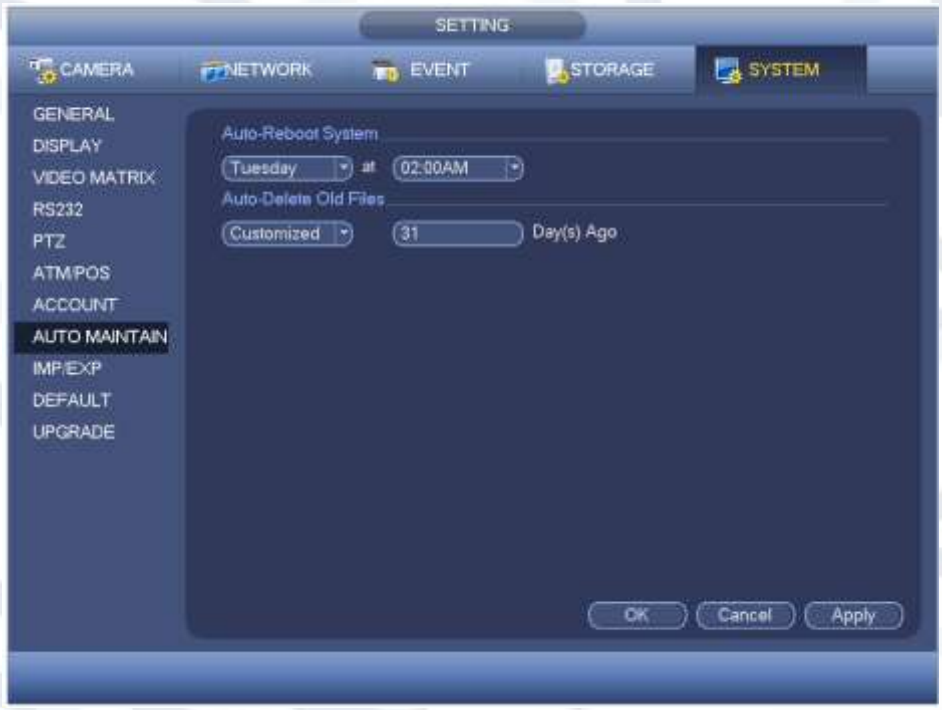

Figure 4-151

- **Config Backup**

The configuration file backup interface is shown as below. See Figure 4-152.

This function allows you to import/export system configuration. You can use this function when there are several devices needing the same setup.

- Export: Please connect the peripheral device first and then go to the following interface. Click Export button, you can see there is a corresponding “Config_Time” folder. Double click the folder, you can view some backup files.
- Import: Here you can import the configuration files from the peripheral device to current device. You need to select a folder first. You can see a dialogue box asking you to select a folder if you are selecting a file. System pops up a dialogue box if there is no configuration file under current folder. After successfully importing, the system needs to reboot to activate a new setup.
- Format: Click Format button, system pops up a dialogue box for you to confirm current operation. System begins format process after you click the OK button.

Notes:

- System cannot open config backup interface again if there is backup operation in the process.

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- System refreshes device when you go to the config backup every time and set the current directory as the root directory of the peripheral device.
- If you go to the configuration backup interface first and then insert the peripheral device, please click Refresh button to view the newly added device.

Figure 4-152

○ **Default**

Click the default icon, the system will pop up a dialogue box. You can highlight ■ to restore default factory setup. See Figure 4-153.

- Camera
- Network
- Event
- Storage
- System

Please highlight icon to select the corresponding function.

After all the setups please click save button, system goes back to the previous menu.

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Warning!

System menu color, language, time display mode, video format, IP address, user account will not maintain previous setup after default operation!

Figure 4-153

○ **Update**

Here is for you to view hardware features, software version, built date, release SN information, etc. You can also update the system here. See Figure 4-154.

- Start: Please insert the USB device that have the update file to the device and then click the Start button to begin the update.

Important:
Please make sure the upgrade file name is 'update.bin'.

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Figure 4-154

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5. WEB OPERATION

5.1 Network Connection

Before web operation, please check the following items:

- Network connection is right
- DVR and PC network setup is correct. Please refer to network setup(Setup ->Network)
- Use order ping ***.***.***.*** (* DVR IP address) to check connection is OK or not. Usually the return TTL value should be less than 255.
- Open the IE and then input DVR IP address.
- System can automatically download latest web control and the new version can overwrite the previous one.
- If you want to un-install the web control, please run *uninstall webrec3.0.bat*. Or you can go to C:\Program Files\webrec to remove single folder. Please note, before you un-install, please close all web pages, otherwise the un-installation might result in error.
- Current series product supports various browsers such as Safari, firebox browser, Google browser. Device only support 1-channel monitor on the Apple PC.

5.2 Login

Open IE and input DVR address in the address column. For example, if your DVR IP is 10.10.3.16, then please input http:// 10.10.3.16 in IE address column. See Figure 5-1.

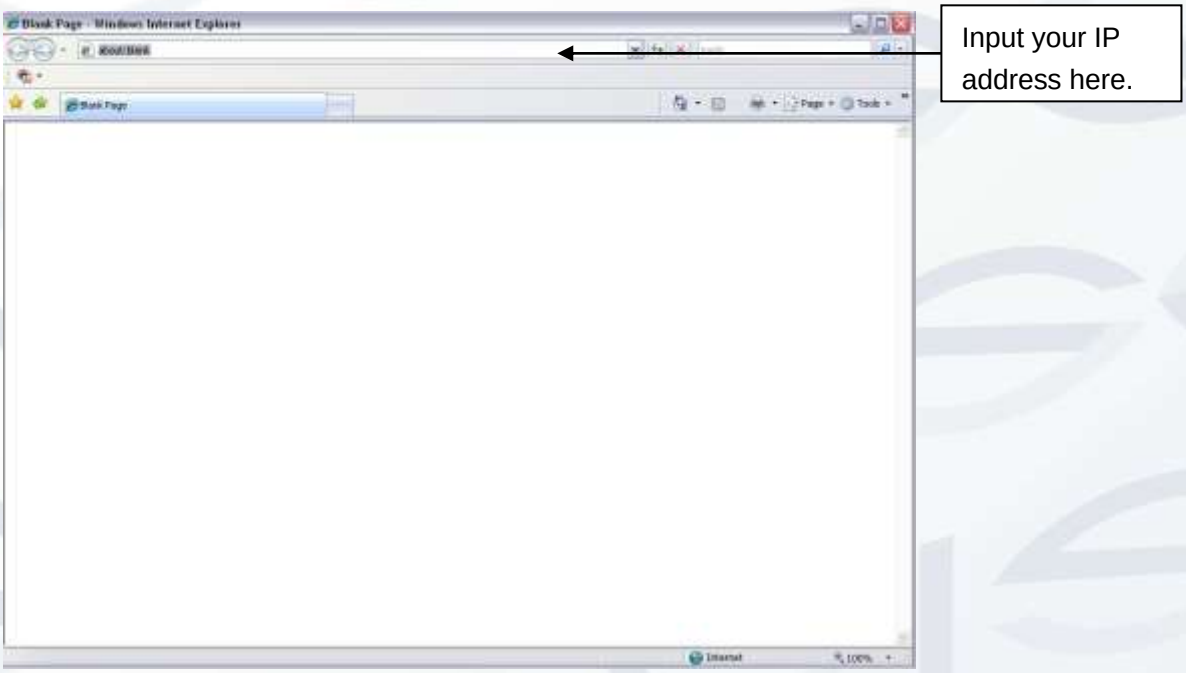

Figure 5-1

System pops up warning information to ask you whether install webrec.cab control or not. Please click yes button.

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If you can't download the ActiveX file, please modify your settings as follows. See Figure 5-2.

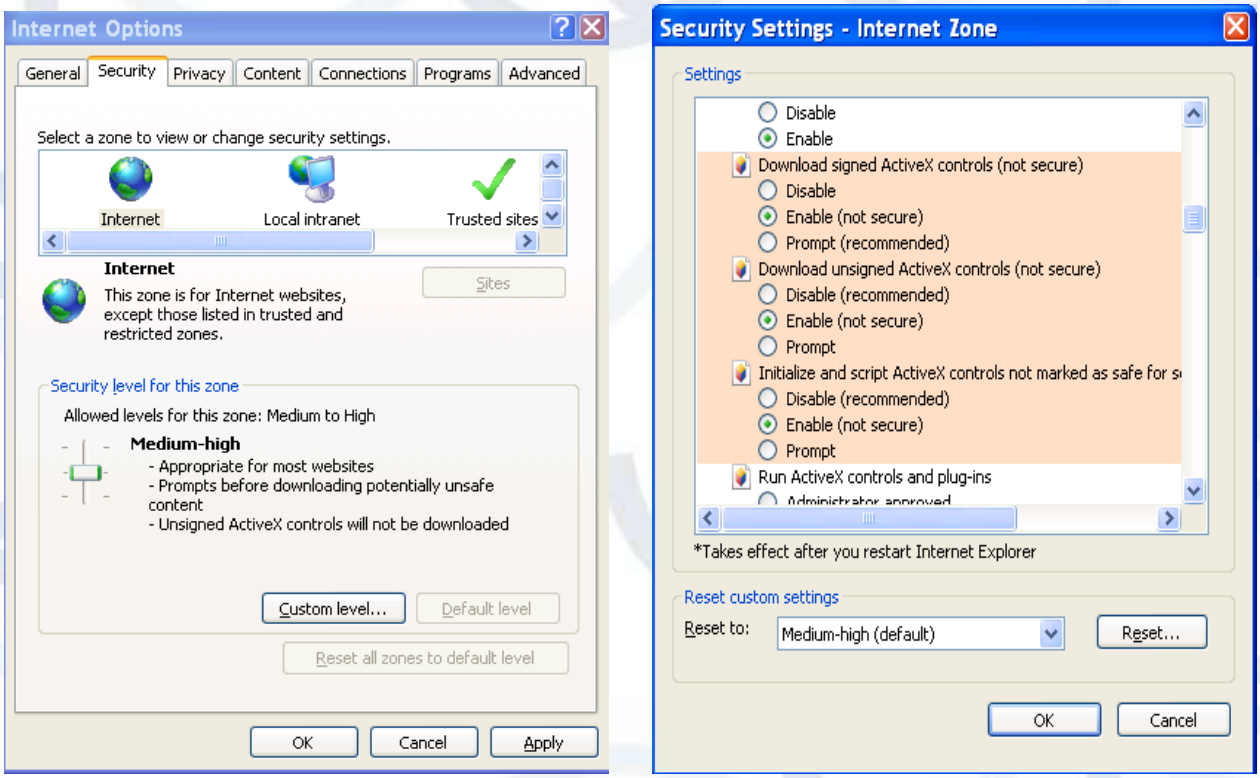

Figure 5-2

After installation, the interface is shown as below. See Figure 5-3.
Please input your user name and password.

Default factory name is **admin** and password is **admin**.

Then you can select the login mode: LAN and WAN.

Note: For security reasons, please modify your password after you first login.

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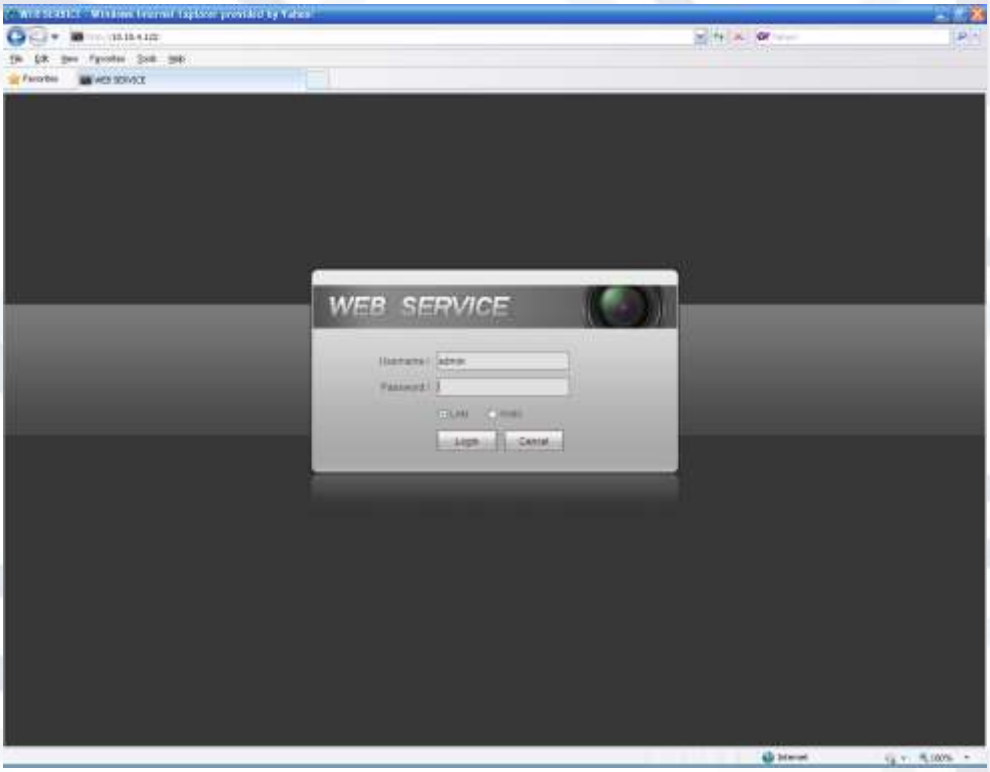

Figure 5-3

5.3 LAN Mode

For the LAN mode, after you logged in, you can see the main window. See Figure 5-9. This main window can be divided into the following sections.

- **Section 1:** there are five function buttons: Live（chapter 5.4）, setup (chapter 5.8), search (chapter 5.9), alarm (chapter 5.10), and logout (chapter 5.11).
- **Section 2:** There are channel number and one button: Start all. Start all button is to enable/disable all-channel real-time monitor. Click it the button becomes yellow. See Figure 5-4.

Figure 5-4

Please refer to Figure 5-5 for main stream and extra stream switch information.

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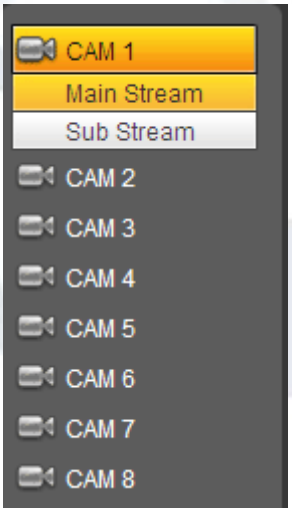

Figure 5-5

- Section 3: Start dialogue button.

You can click this button to enable audio talk. Click 【▼】 to select bidirectional talk mode.

There are four options: DEFAULT，G711a，G711u and PCM. After you enable the bidirectional talk, the Start talk button becomes End Talk button and it becomes yellow. See Figure 5-6.

Note: the audio input port from the device to the client-end is using the first channel audio input port. During the bidirectional talk process, system will not encode the audio data from the 1-channel.

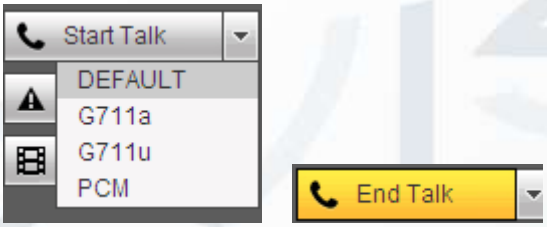

Figure 5-6

- Section 4: Instant record button. Click it, the button becomes yellow and system begins manual record. See Figure 5-7. Click it again, system restores previous record mode..

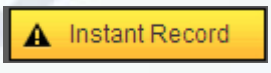

Figure 5-7

- Section 5: Local play button.

The Web can playback the saved (Extension name is '.dav') files in the PC-end.

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Click local play button, system pops up the following interface for you to select local play file. See Figure 5-8.

Figure 5-8

- **Section 6:** From the left to the right ,you can see video quality/fluency/ full screen/1-window/4-window/6-window/8-window/9-window/13-window/16-window/20-window/25-window/36-window.. You can set video fluency and real-time feature priority.
- **Section 7:** PTZ operation panel. Please refer to chapter 5.5 for detailed information.
- **Section 8:** Image setup and alarm setup. Please refer to chapter 5.6 for detailed information.

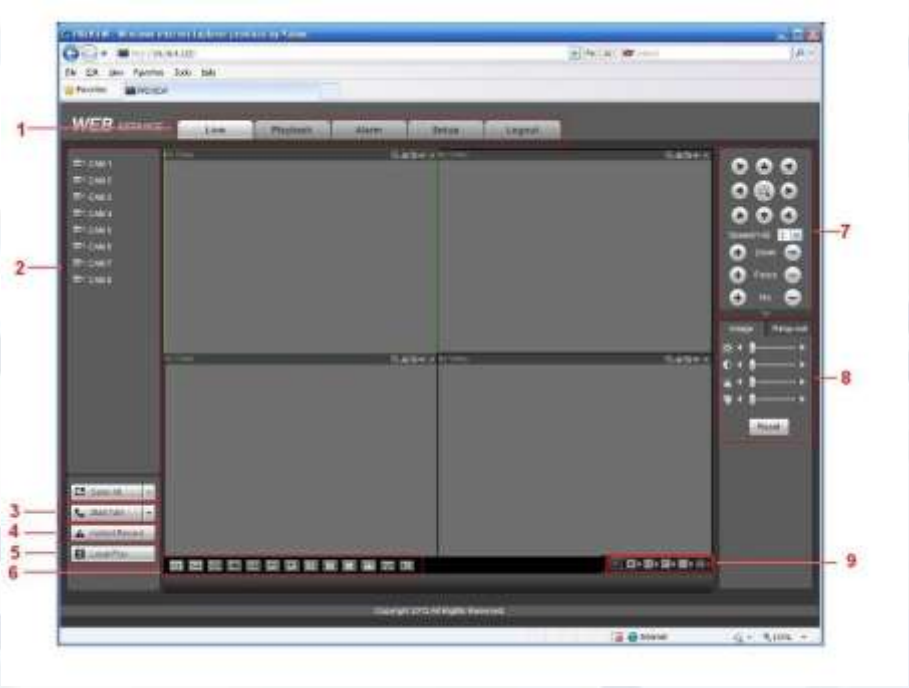

Figure 5-9

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5.4 Real-time Monitor

In section 2, left click the channel name you want to view, you can see the corresponding video in current window.

On the top left corner, you can view device IP, channel number, network monitor bit stream. See Figure 5-10.

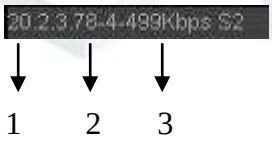

Figure 5-10

On the top right corer, there are six Action buttons. See Figure 5-11.

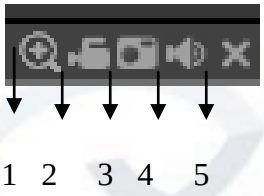

Figure 5-11

- **1: Digital zoom:** Click this button and then left drag the mouse in the zone to zoom in. right click mouse system restores original status.
- **2: Local record:** When you click local record button, the system begins recording and this button becomes highlighted. You can go to system folder RecordDownload to view the recorded file.
- **3: Snapshot picture:** You can snapshoot important video. All images are memorized in system client folder PictureDownload (default).
- **4: Audio:**Turn on or off audio.(It has no relationship with system audio setup)
- **5:** Close video.

5.5 PTZ

Before PTZ operation, please make sure you have properly set PTZ protocol.

There are eight direction keys. In the middle of the eight direction keys, there is a 3D intelligent positioning key.

Click 3D intelligent positioning key, system goes back to the single screen mode. Drag the mouse in the screen to adjust section size. It can realize PTZ automatically.

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Please refer to the following sheet for PTZ setup information.

Parameter	Function
Scan	● Select Scan from the dropdown list. ● Click Set button, you can set scan left and right limit. ● Use direction buttons to move the camera to you desired location and then click left limit button. Then move the camera again and then click right limit button to set a right limit.
Preset	● Select Preset from the dropdown list. ● Turn the camera to the corresponding position and Input the preset value. Click Add button to add a preset,.
Tour	● Select Tour from the dropdown list. ● Input preset value in the column. Click Add preset button, you have added one preset in the tour. ● Repeat the above procedures you can add more presets in one tour. ● Or you can click delete preset button to remove one preset from the tour.
Pattern	● Select Pattern from the dropdown list. ● You can input pattern value and then click Start button to begin PTZ movement such as zoom, focus, iris, direction and etc. Then you can click Add button to set one pattern.
Aux	● Please input the corresponding aux value here. ● You can select one option and then click AUX on or AUX off button.
Light and wiper	You can turn on or turn off the light/wiper.

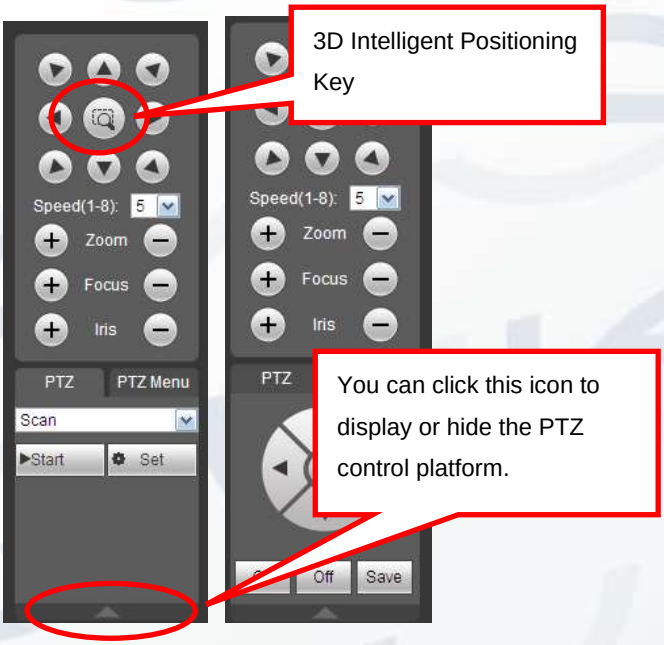

Figure 5-12

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5.6 Image/Relay-out

Select one monitor channel video and then click Image button in section 8, the interface is shown as Figure 5-13.

5.6.1 Image

Here you can adjust its brightness, contrast, hue and saturation. (Current channel border becomes green).

Or you can click Reset button to restore system default setup.

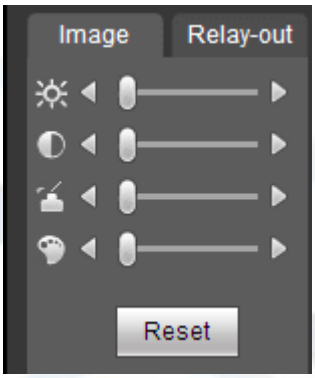

Figure 5-13

5.6.2 Relay output

Here you can select alarm output channel, the select channel alarm mode becomes manual and alarm is enabled. See Figure 5-14.

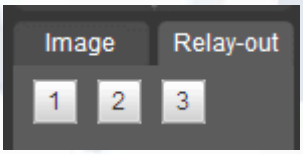

Figure 5-14

5.6.3 Multiple-channel preview

System allows you to preview several channels on one channel. It supports 1/4/8/9-window. See Figure 5-15.

Please note only the product of this icon can support current function.

Figure 5-15

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5.7 WAN Login

In WAN mode, after you logged in, the interface is shown as below. See Figure 5-16:

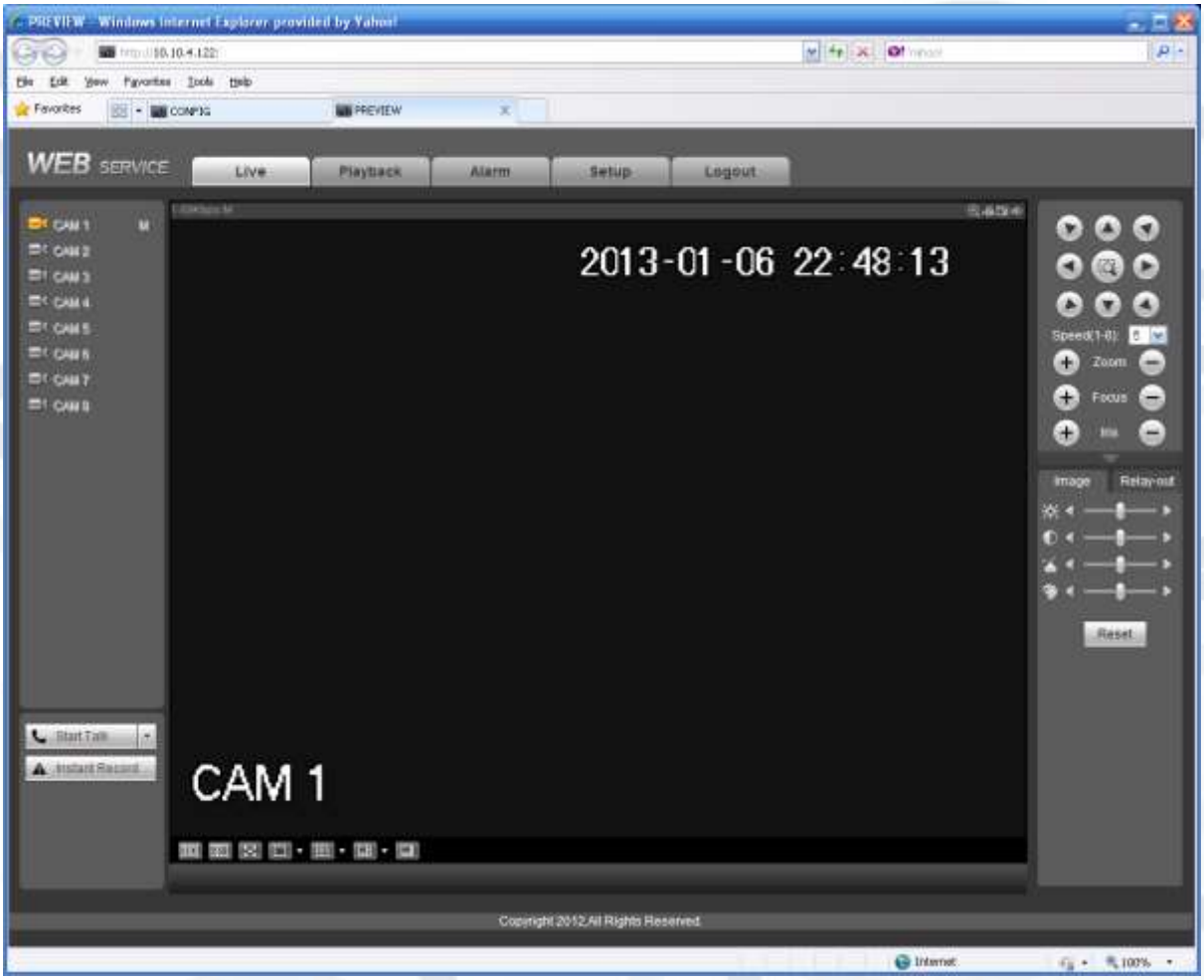

Figure 5-16

Please refer to the following contents for LAN and WAN login difference.

In the WAN mode, system opens the main stream of the first channel to monitor by default. The open/close button on the left pane is null.

You can select different channel and different monitor mode at the bottom of the interface. See Figure 5-17.

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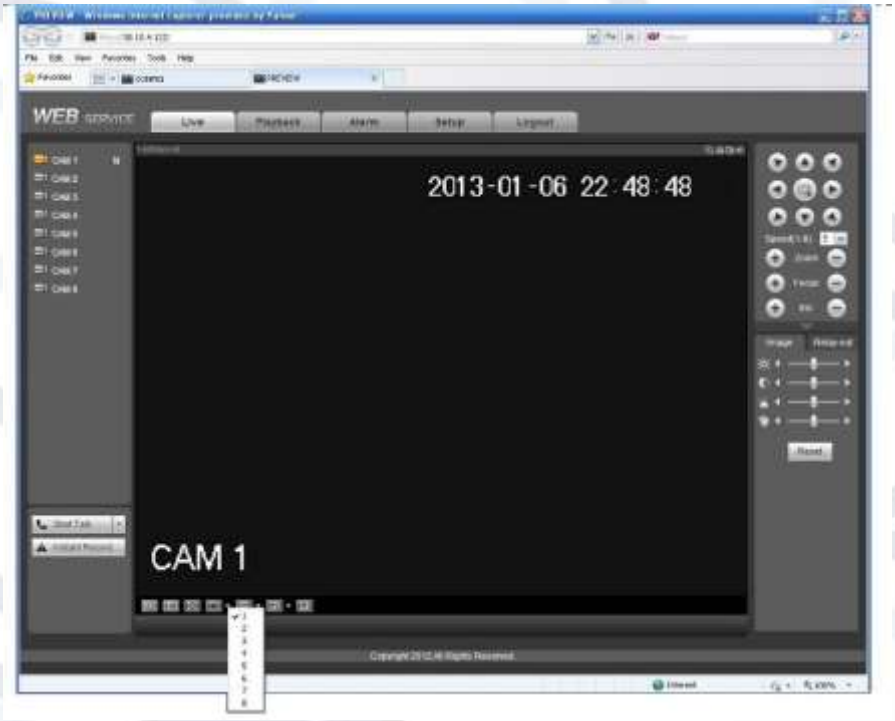

Figure 5-17

Important: The window display mode and the channel number are by default. For example, for the 16-channel, the max window split mode is 16.

Multiple-channel monitor, system adopts extra stream to monitor by default. Double click one channel, system switches to single channel and system uses main stream to monitor. You can view there are two icons at the left top corner of the channel number for you reference. M stands for main stream. S stands for sub stream (extra stream).

If you login via the WAN mode, system does not support alarm activation to open the video function in the Alarm setup interface.

Important

- For multiple-channel monitor mode, system adopts extra stream to monitor by default. You can not modify manually. All channels are trying to synchronize. Please note the synchronization effect still depends on your network environments.
- For bandwidth consideration, system can not support monitor and playback at the same time. System auto closes monitor or playback interface when you are searching setup in the configuration interface. This isto enhance search speed.

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5.8 Setup

5.8.1 Channel

- **Conditions**

Here you can view device property information. The setups become valid immediately after you set. See Figure 5-18.

Figure 5-18

Please refer to the following sheet for detailed information:

Parameter	Function
Channel	Please select a channel from the dropdown list.
Period	It divides one day (24 hours) to two periods. You can set different hue, brightness, and contrast for different periods.
Hue	This isto adjust monitor video brightness and darkness level. The default value is 50. The bigger the value is, the large the contrast between the bright and dark section is and vice versa.
Brightness	This isto adjust monitor window brightness. The default value is 50. The larger the number is , the bright the video is. When you input the value here, the bright section and the dark section of the video will be adjusted accordingly. You can use this function when the whole video is too dark or too bright. Please note the video may become hazy if the value is too high. The value ranges from 0 to 100.The recommended value ranges from 40 to 60.

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Contrast	This isto adjust monitor window contrast. The value ranges from 0 to 100. The default value is 50. The larger the number is, the higher the contrast is. You can use this function when the whole video bright is OK but the contrast is not proper. Please note the video may become hazy if the value is too low. If this value is too high, the dark section may lack brightness while the bright section may over exposure .The recommended value ranges from 40 to 60.
Saturation	This isto adjust monitor window saturation. The value ranges from 0 to 100. The default value is 50. The larger the number is, the strong the color is. This value has no effect on the general brightness of the whole video. The video color may become too strong if the value is too high. For the grey part of the video, the distortion may occur if the white balance is not accurate. Please note the video may not be attractive if the value is too low. The recommended value ranges from 40 to 60.
Gain	The gain adjust is to set the gain value. The smaller the value is, the low the noise is. But the brightness is also too low in the dark environments. It can enhance the video brightness if the value is high. But the video noise may become too clear.
White level	This isto enhance the video effect.
Color mode	It includes several modes such as standard, color. You can select corresponding color mode here, you can see hue, brightness, and contrast and etc will adjust accordingly.

5.8.2 Video and Audio

- **Encode**

The encode interface is shown as below. See Figure 5-19:

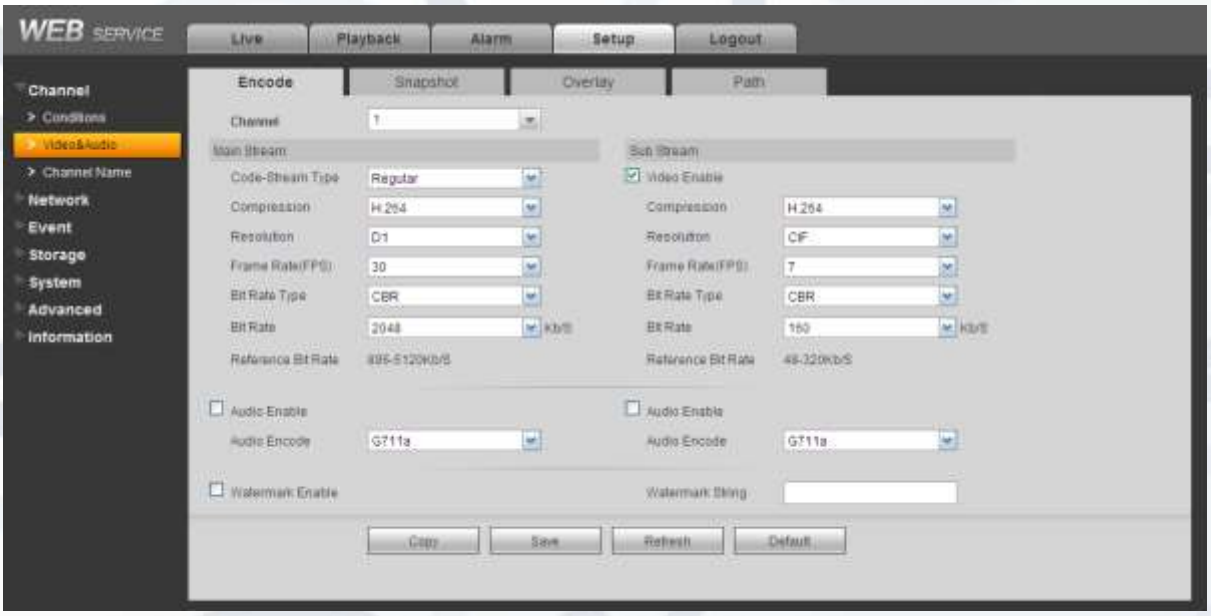

Figure 5-19

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Please refer to the following sheet for detailed information:

Parameter	Function
Channel	Please select a channel from the dropdown list.
Video enable	Check the box here to enable extra stream video. This item is enabled by default.
Code stream type	It includes main stream, motion stream and alarm stream. You can select different encode frame rates form different recorded events. System supports active control frame function (ACF). It allows you to record in different frame rates. For example, you can use high frame rate to record important events, record scheduled event in lower frame rate and it allows you to set different frame rates for motion detection record and alarm record.
Compression	The main bit stream supports H.264. The extra stream supports H.264, MJPG.
Resolution	System supports various resolutions, you can select from the dropdown list. The main stream supports D1/HD1/2CIF/CIF/QCIF and the extra stream supports CIF/QCIF. Please note the option may vary due to different series.
Frame Rate	PAL：1～25f/s；NTSC：1～30f/s.
Bit Rate	● Main stream: You can set bit rate here to change video quality. The large the bit rate is, the better the quality is. Please refer to recommend bit rate for the detailed information. ● Extra stream: In CBR, the bit rate here is the max value. In dynamic video, system needs to low frame rate or video quality to guarantee the value. The value is null in VBR mode.
Reference bit rate	Recommended bit rate value according to the resolution and frame rate you have set.
I Frame	Here you can set the P frame amount between two I frames. The value ranges from 1 to 150. Default value is 50. Recommended value is frame rate *2.
Watermark enable	This function allows you to verify the video is tampered or not. Here you can select watermark bit stream, watermark mode and watermark character. Default character is DigitalCCTV. The max length is 85-digit. The character can only include number, character and underline.

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- **Snapshot**

The snapshot interface is shown as in Figure 5-20.

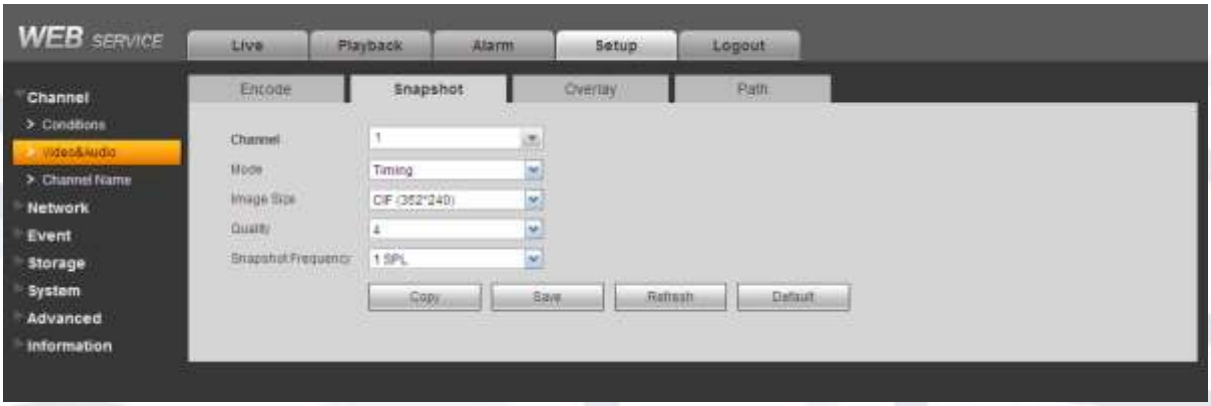

Figure 5-20

Please refer to the following sheet for detailed information:

Parameter	Function
Snapshot type	There are two modes: Timing (schedule) and Event (activation). ● Timing snapshot is valid during the specified period you set. ● Activation snapshot only is valid when motion detect alarm, camera masking alarm or local activation alarm occurs.
Image size	This isthe same with the resolution of the main stream.
Quality	This isto set the image quality. There are six levels.
Interval	This isto set snapshot frequency. The value ranges from 1s to 7s.
Copy	Click it; you can copy current channel setup to other channel(s).

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- **Video Overlay**

The video overlay interface is shown as in Figure 5-21.

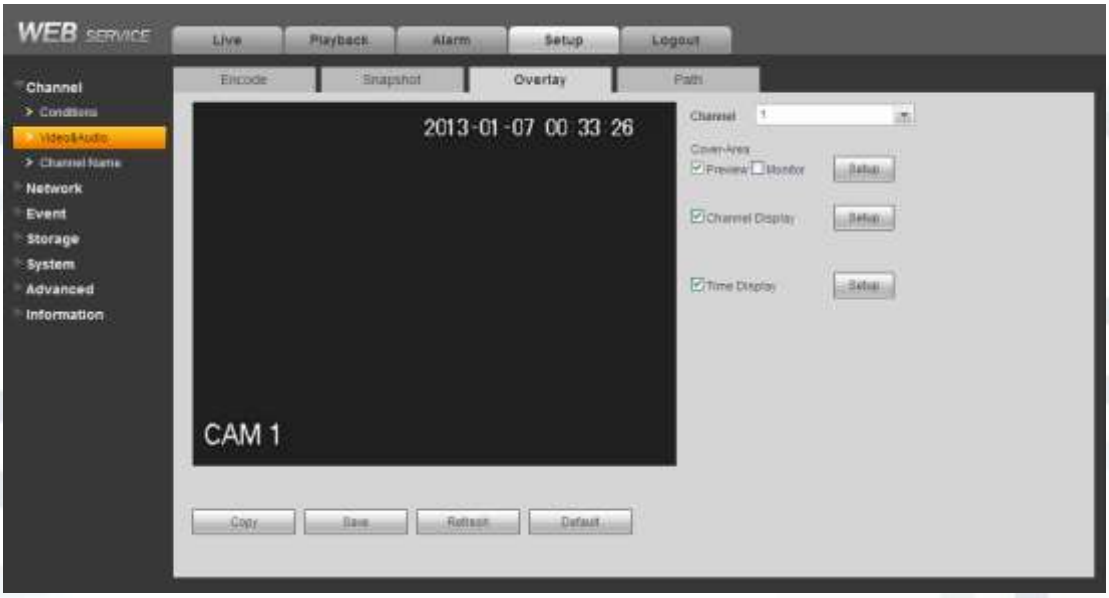

Figure 5-21

Please refer to the following sheet for detailed information:

Parameter	Function
Cover-area (Privacy mask)	Check Preview or Monitor first. Click Set button, you can privacy mask the specified video in the preview or monitor video. System max supports 4 privacy mask zones.
Time Title	You can enable this function so that system overlays time information in video window. You can use the mouse to drag the time title position. You can view time title on the live video of the WEB or the playback video.
Channel Title	You can enable this function so that system overlays channel information in video window. You can use the mouse to drag the channel title position. You can view channel title on the live video of the WEB or the playback video.

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- **Path**

The storage path interface is shown as in Figure 5-22.

Here you can set snap image saved path (in the preview interface) and the record storage path (in the preview interface).The default setup is C:\PictureDownload and C:\RecordDownload.

Please click the Save button to save current setup.

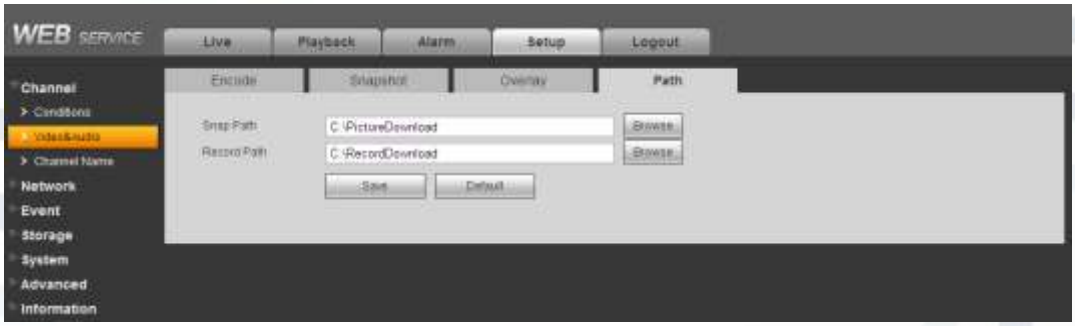

Figure 5-22

- **Channel Name**

Here you can set channel name. See Figure 5-23.

Figure 5-23

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5.8.3 Network

- **TCP/IP**

The TCP/IP interface is shown as in Figure 5-24.

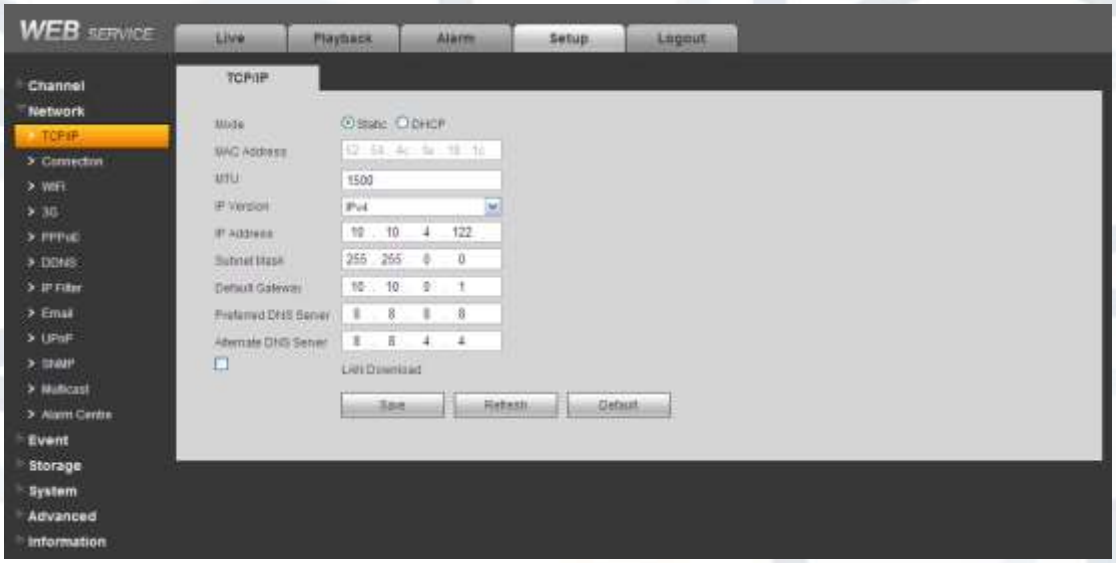

Figure 5-24

Please refer to the following sheet for detailed information:

Parameter	Function
Mode	There are two modes: static mode and the DHCP mode. ● The IP/submask/gateway are null when you select the DHCP mode to auto search the IP. ● If you select the static mode, you need to set the IP/submask/gateway manually. ● If you select the DHCP mode, you can view the IP/submask/gateway from the DHCP. ● If you switch from the DHCP mode to the static mode, you need to reset the IP parameters. ● Besides, IP/submask/gateway and DHCP are read-only when the PPPoE dial is OK.
Mac Address	This is to display host Mac address.
IP Version	This is to select IP version. IPV4 or IPV6. You can access the IP address of these two versions.
IP Address	Please use the keyboard to input the corresponding number to modify the IP address and then set the corresponding subnet mask and the default gateway.
Preferred DNS	DNS IP address.
Alternate DNS	Alternate DNS IP address.

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For the IP address of IPv6 version, default gateway, preferred DNS and alternate DNS, the input value shall be 128-digit. Do not be leave blank.	
LAN load	System can process the downloaded data first if you enable this function. The download speed is 1.5X or 2.0X of the normal speed.

- **Connection**

The connection interface is shown as in Figure 5-25.

Figure 5-25

Please refer to the following sheet for detailed information:

Parameter	Function
Max connection	This isthe max Web connection for the same device. The value ranges from 1 to 20. The default setup is 10.
TCP port	The default value is 37777. You can input the actual port number if necessary.
UDP port	The default value is 37778. You can input the actual port number if necessary.
HTTP port	The default value is 80. You can input the actual port number if necessary.
RTSP port	The default value is 554.

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- **WIFI**

Please note this function is for the device of WIFI module.

The WIFI interface is shown as in Figure 5-26.

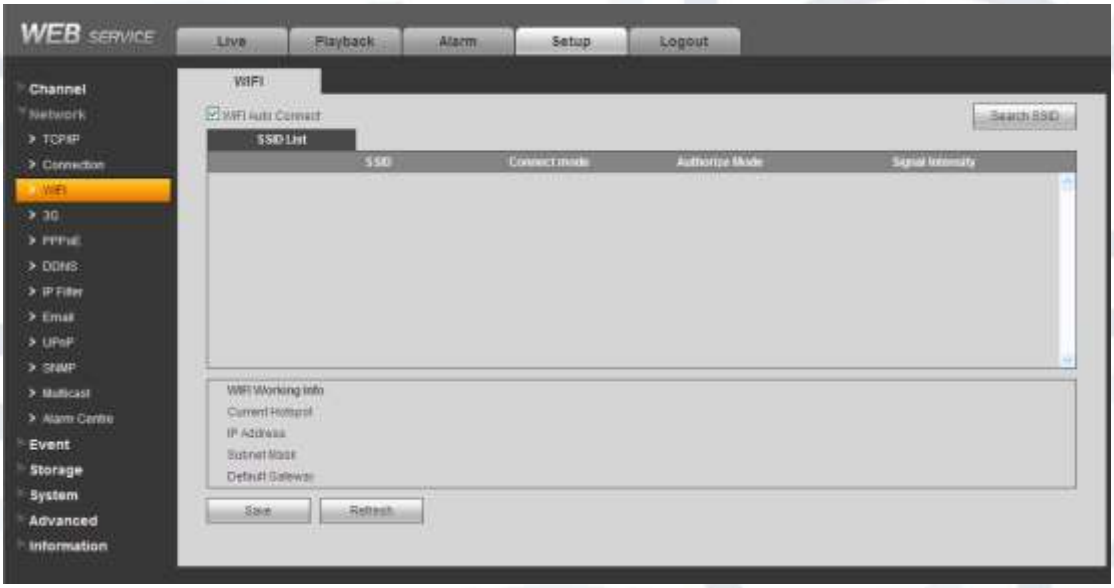

Figure 5-26

Please check the box to enable WIFI function and then click the Search SSID button. Now you can view all the wireless network information in the following list. Double click a name to connect to it. Click Refresh button, you can view latest connection status.

4.3.3.1

- **3G: CDMA/GPRS**

The CDMA/GPRS interface is shown as in Figure 5-27.

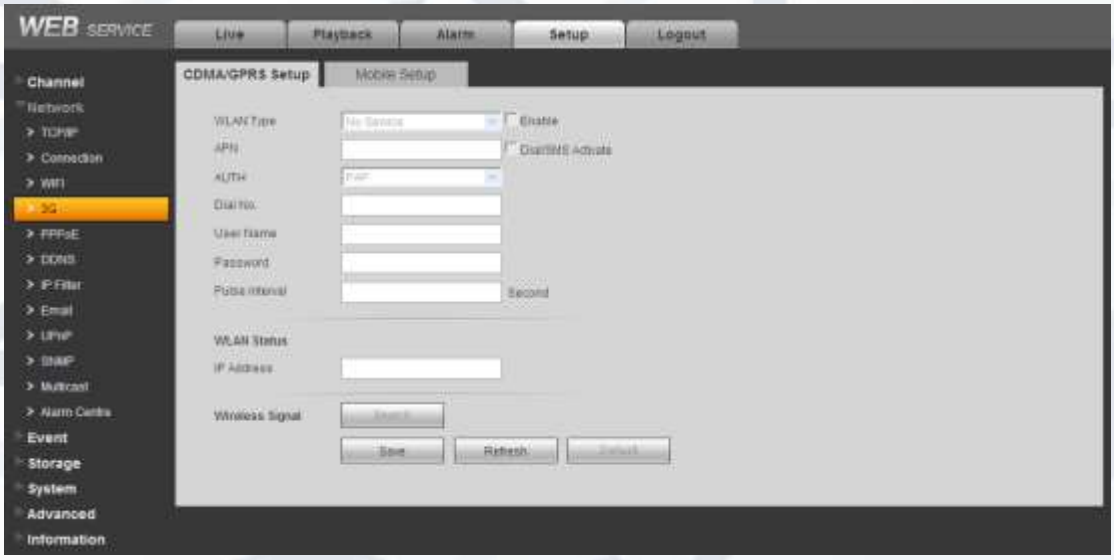

Figure 5-27

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Please refer to the following sheet for detailed information:

Parameter	Function
WLAN type	Here you can select 3G network type to distinguish the 3G module from different ISP. The types include WCDMA，CDMA1x and etc.
APN/Dial No.	Here is the important parameter of PPP.
Authorization	It includes PAP,CHAP,NO_AUTH.
Pulse interval	This isto set time to end 3G connection after you close extra stream monitor. For example, if you input 60 here, system ends 3G connection after you close extra stream monitor 60 seconds.
Important • **If the pulse interval is 0, then system does not end 3G connection after you close the extra stream monitor.** • **Pulse interval here is for extra stream only. This item is null if you are using main stream to monitor.**	

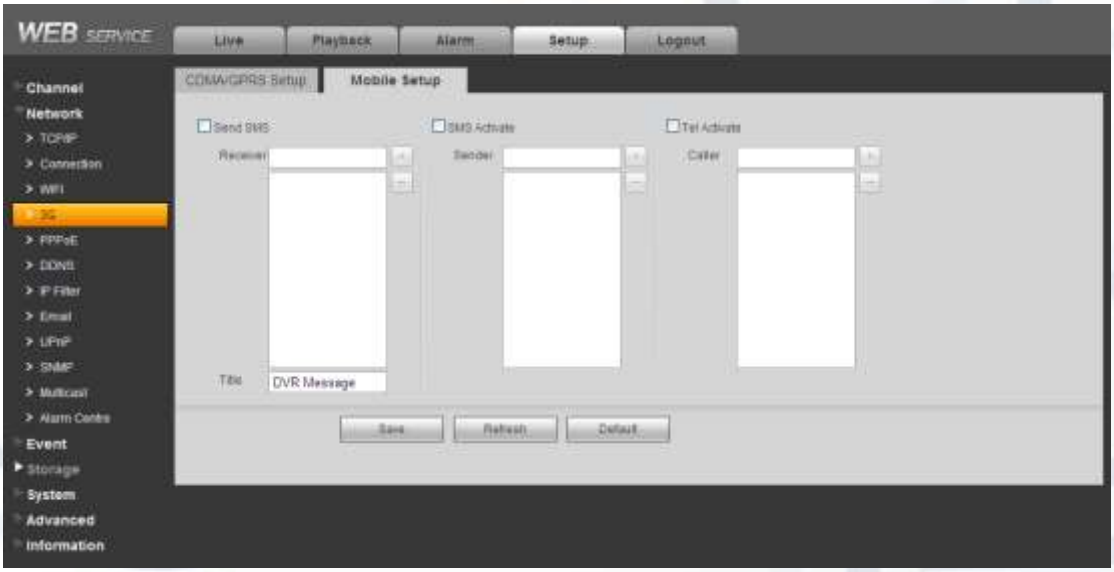

Figure 5-28

- **3G: Mobile**

The mobile setup interface is shown as in Figure 5-29.

Here you can activate or turn off the 3G connected phone/mobile phone, or the phone you set to get alarm message.

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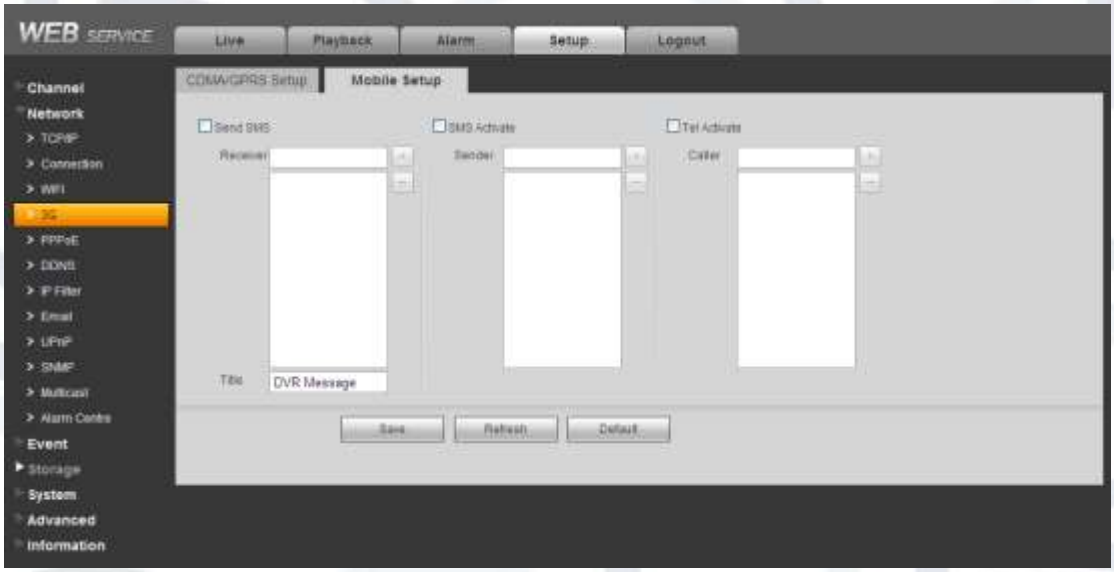

Figure 5-29

- **PPPoE**

The PPPoE interface is shown as in Figure 5-30.

Input the PPPoE user name and password you get from the IPS (internet service provider) and enable PPPoE function. Please save current setup and then reboot the device to get the setup activated.
Device connects to the internet via PPPoE after rebooting. You can get the IP address in the WAN from the IP address column.

Note: you need to use previous IP address in the LAN to login the device. Please go to the IP address item to via the device current device information. You can access the client-end via this new address.

Figure 5-30

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- **DDNS**

The DDNS interface is shown as in Figure 5-31.

The DDNS is to set to connect the various servers so that you can access the system via the server. Please go to the corresponding service website to apply a domain name and then access the system via the domain. It works even your IP address has changed.

Please select DDNS from the dropdown list (Multiple choices). Before you use this function, please make sure your purchased device support current function.

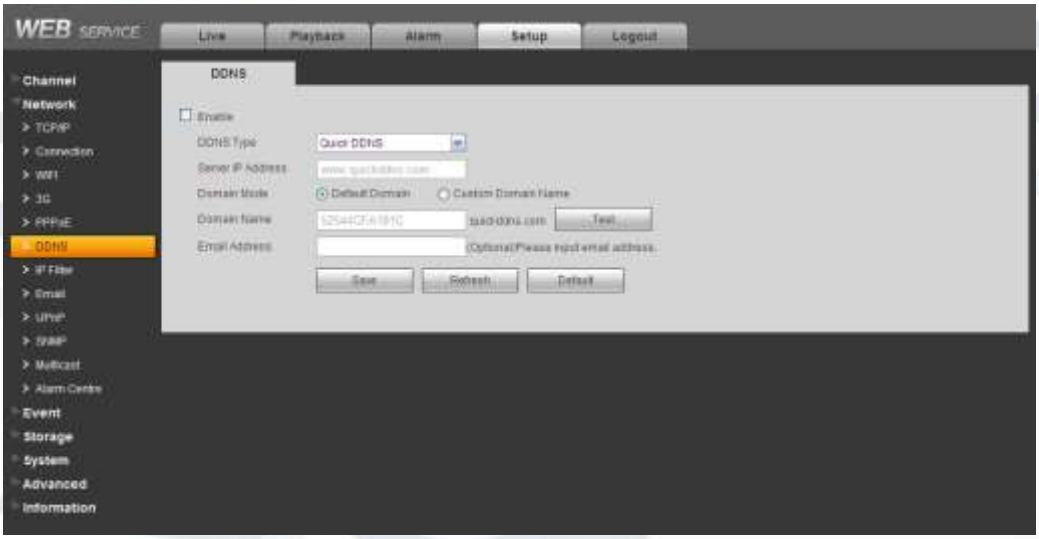

Figure 5-31

Please refer to the following sheet for detailed information:

Parameter	Function
Server Type	You can select DDNS protocol from the dropdown list and then enable DDNS function.
Server IP	DDNS server IP address
Server Port	DDNS server port.
Domain Name	Your self-defined domain name.
User	The user name you input to log in the server.
Password	The password you input to log in the server.
Update period	Device sends out alive signal to the server regularly. You can set interval value between the device and DDNS server here.

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Quick DDNS and Client-end Introduction

1) Background Introduction

Device IP is not fixed if you use ADSL to login the network. The DDNS function allows you to access the DVR via the registered domain name. Besides the general DDNS, the quick DDNS works with the device from the manufacturer so that it can add the extension function.

2) Function Introduction

The quick DDNS client has the same function as other DDNS client end. It recognises the bonding of the domain name and the IP address. Right now, current DDNS server is for our own devices only. You need to refresh the bonding relationship of the domain and the IP regularly. There is no user name, password or the ID registration on the server. At the same time, each device has a default domain name (Generated by MAC address) for your option. You can also use customized valid domain name (has not registered.).

3) Operation

Before you use Quick DDNS, you need to enable this service and set proper server address, port value and domain name.

- **Server address**：www.quickddns.com
- **Port number**：80
- **Domain name**：There are two modes: Default domain name and customized domain name.

Except default domain name registration, you can also use customised domain name (You can input your self-defined domain name.) After successful registration, you can use domain name to login installed of the device IP.

- **User name:** This isoptional. You can input your commonly used email address.

Important

- Do not register frequently. The interval between two registrations should not be more than 60 seconds apart. Too many registration requests may result in the server blocking access to you.
- System may deregister the domain name if it sits idle for overa year. You can get a notification email before this happens so you can cancel the operation if your email address setup is correctly.

- **IP filter**

The IP filter interface is shown as in Figure 5-32.

After you enabled trusted sites function, only the IP listed below can access current DVR.

If you enable blocked sites function, the following listed IP addresses can not access current DVR.

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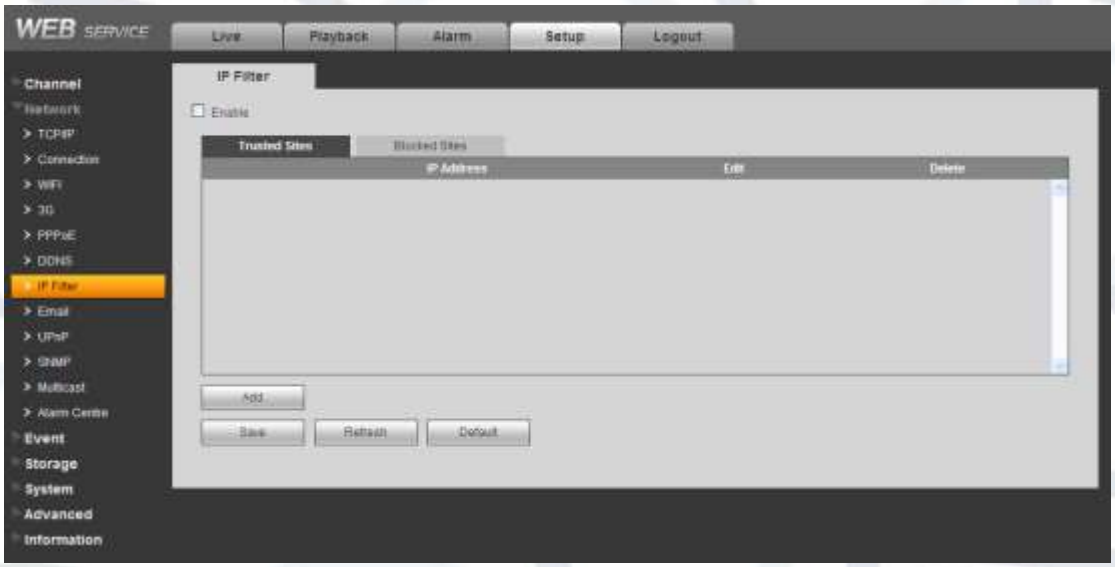

Figure 5-32

- **Email**

The email interface is shown as in Figure 5-33.

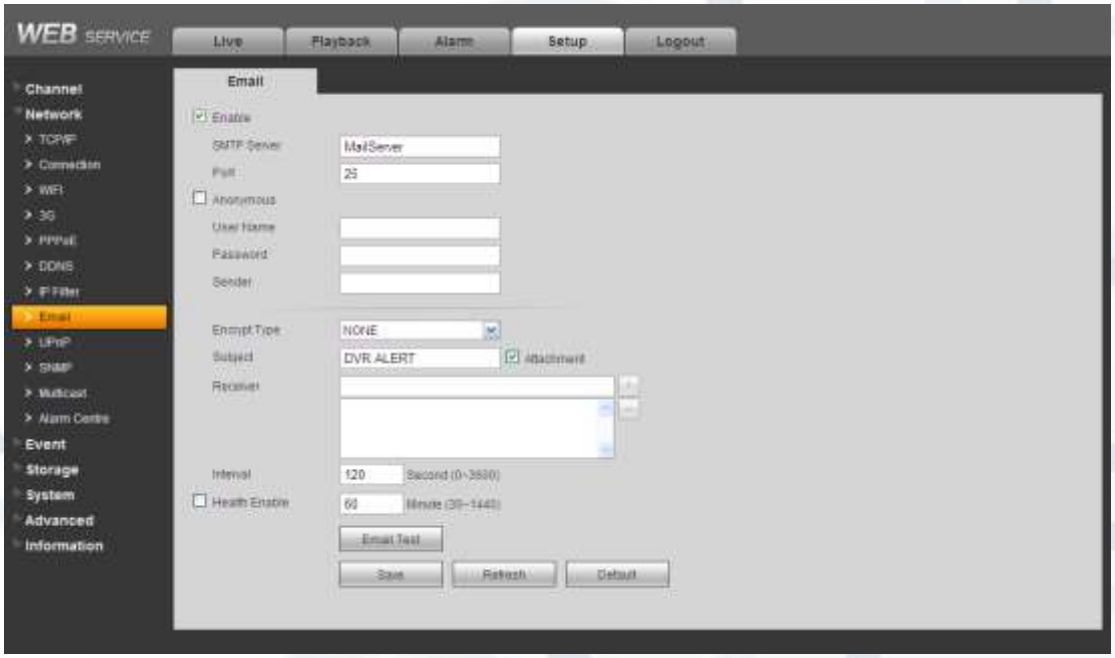

Figure 5-33

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Please refer to the following sheet for detailed information:

Parameter	Function
Enable	Please check the box here to enable email function.
SMTP Server	Input server address and then enable this function.
Port	Default value is 25. You can modify it if necessary.
Anonymity	For the server supports the anonymity function. You can auto login anonymously. You do not need to input the user name. password and the sender information.
User Name	The user name of the sender email account.
Password	The password of sender email account.
Sender	Sender email address.
Authentication (Encryption mode)	You can select SSL or none.
Subject	Input email subject here.
Attachment	System can send out the email of the snapshot picture once you check the box here.
Receiver	Input receiver email address here. Max three addresses. It supports SSL,TLS email box.
Interval	The send interval ranges from 0 to 3600 seconds. 0 means there is no interval. Please note system will not send out the email immediately when the alarm occurs. When the alarm, motion detection or the abnormity event activates the email, system sends out the email according to the interval you specified here. This function is very useful when there are too many emails activated by the abnormity events, which may result in heavy load for the email server.
Health mail enable	Please check the box here to enable this function.
Update period (interval)	This function allows the system to send out the test email to check the connection is OK or not. Please check the box to enable this function and then set the corresponding interval. System can send out the email regularly as you set here.
Email test	The system will automatically sent out a email once to test the connection is OK or not .Before the email test, please save the email setup information.

- **UPnP**

It allows you to establish the mapping relationship between the LAN and the public network.

Here you can also add, modify or remove UPnP item. See Figure 5-34.

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- In the Windows OS, From Start->Control Panel->Add or remove programs. Click the “Add/Remove Windows Components” and then select the “Network Services” from the Windows Components Wizard.
- Click the Details button and then check the “Internet Gateway Device Discovery and Control client” and “UPnP User Interface”. Please click OK to begin installation.
- Enable UPnP from the Web. If your UPnP is enabled in the Windows OS, the DVR can auto detect it via the “My Network Places”

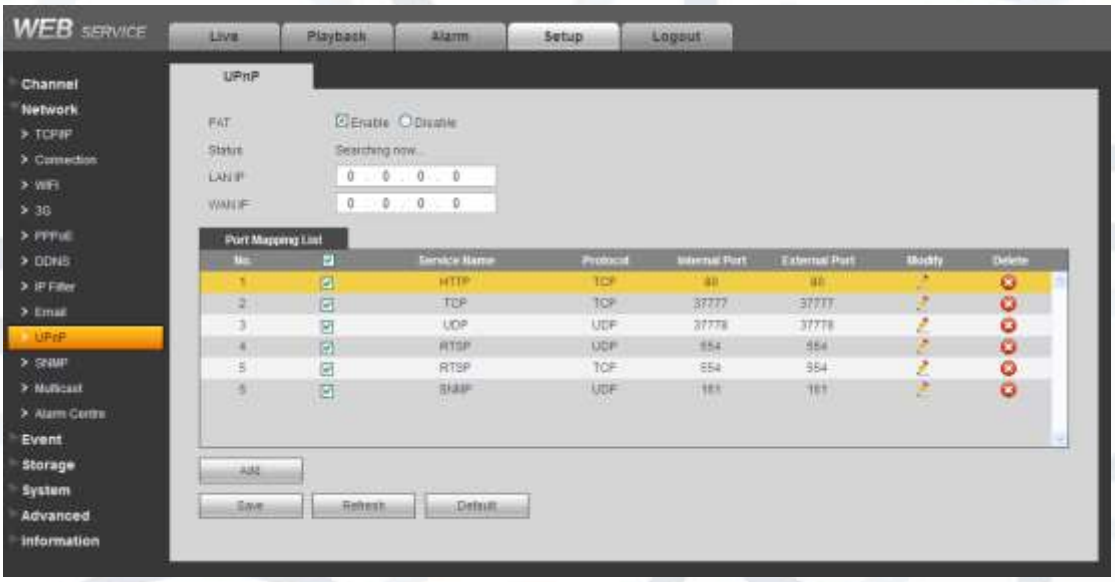

Figure 5-34

- **SNMP**

The SNMP interface is shown as in Figure 5-35.

The SNMP allows the communication between the network management work station software and the proxy of the managed device.

Figure 5-35

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Please refer to the following sheet for detailed information:

Parameter	Function
SNMP Port	The listening port of the proxy program of the device. This isa UDP port not a TCP port. The value ranges from 1 to 65535. The default value is 161
Read Community	This isa string. This isa command between the manage process and the proxy process. It defined the authentication, access control and the management relationship between one proxy and one group of the managers. Please make sure the device and the proxy are the same. The read community will read all the objects the SNMP supported in the specified name. The default setup is public.
Write Community	This isa string. This isa command between the manage process and the proxy process. It defined the authentication, access control and the management relationship between one proxy and one group of the managers. Please make sure the device and the proxy are the same. The read community will read/write/access all the objects the SNMP supported in the specified name. The default setup is write.
Trap address	The destination address of the Trap information from the proxy program of the device.
Trap port	The destination port of the Trap information from the proxy program of the device. This isfor the gateway device and the client-end PC in the LAN to exchange the information. This isa non-protocol connection port. It has no effect on the network applications. This isa UDP port not TCP port. The value ranges from 1 to 165535. The default value is 162.
SNMP version	● Check V1, system only processes the information of V1. ● Check V2, system only processes the information of V2. ● Check SNMP V3.you can set user name and password. There is account security verification when the server wants to connect to the device. At the same time, the v1 and V2 is null and can not select.

- **Multicast**

The multicast interface is shown as in Figure 5-36.

Multicast is a transmission mode of data packet. When there is a multiple-host to receive the same data packet, multiple-cast is the best option to reduce the broad width and the CPU load. The source host can just send out one data to transit. This function also depends on the relationship of the group member and group of the outer.

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Figure 5-36

- **Alarm Centre**

The alarm centre interface is shown as below. See Figure 5-37.

This interface is reserved for you to develop. System can upload alarm signal to the alarm centre when local alarm occurs.

Before you use alarm centre, please set server IP, port and etc. When an alarm occurs, system can send out data as the protocol defined, so the client-end can get the data.

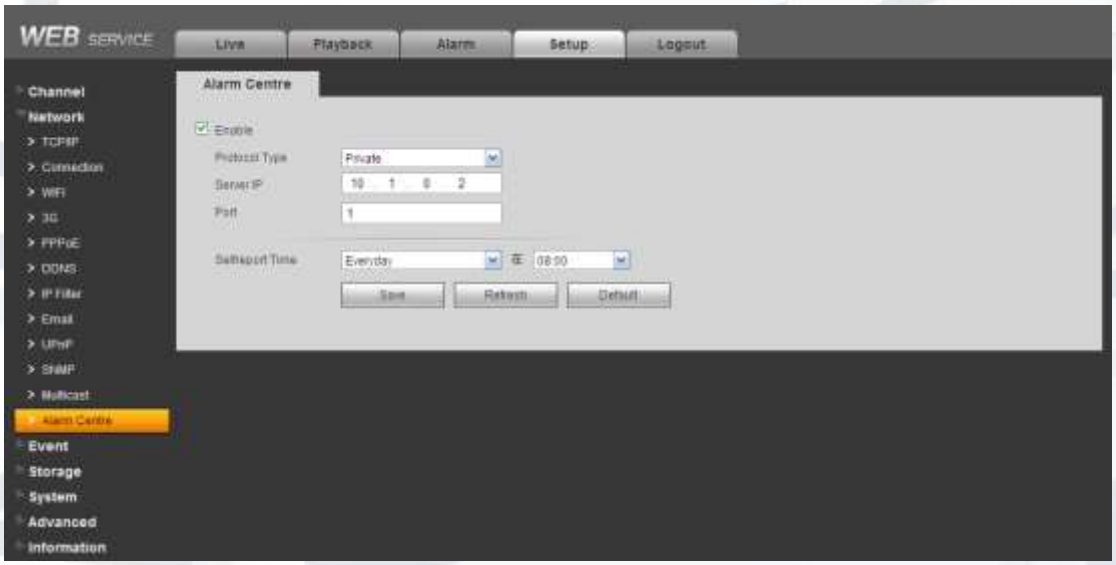

Figure 5-37

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5.8.4 Event

- **Video detect: Motion Detect**

The motion detect interface is shown as in Figure 5-38.

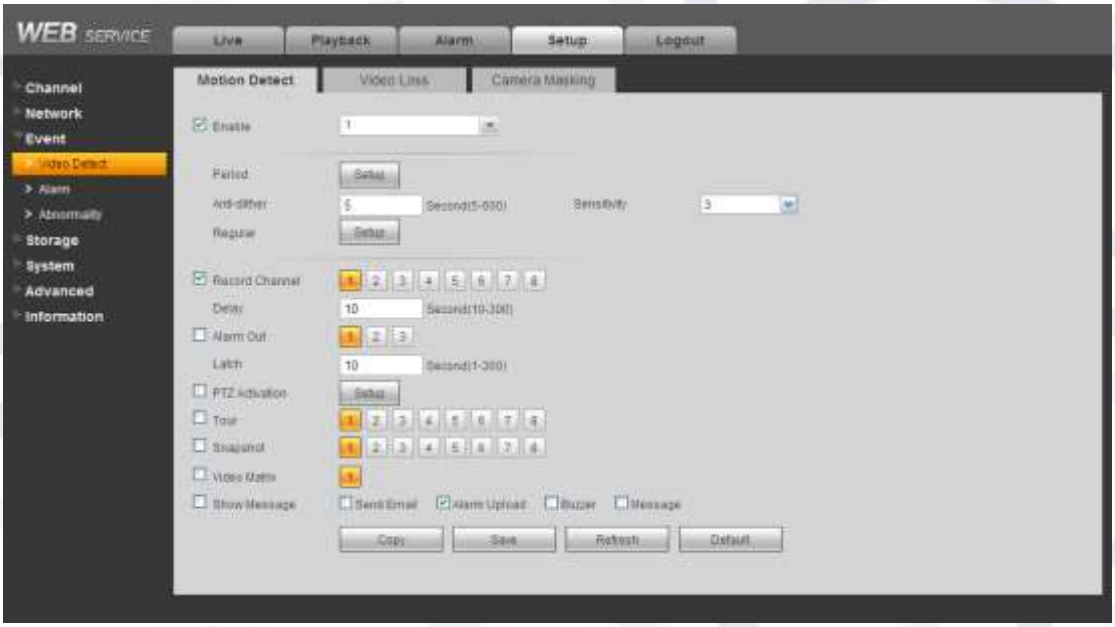

Figure 5-38

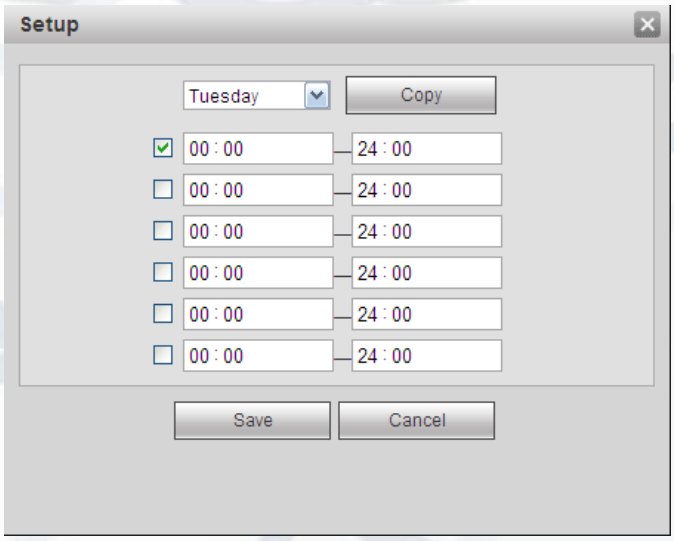

Figure 5-39

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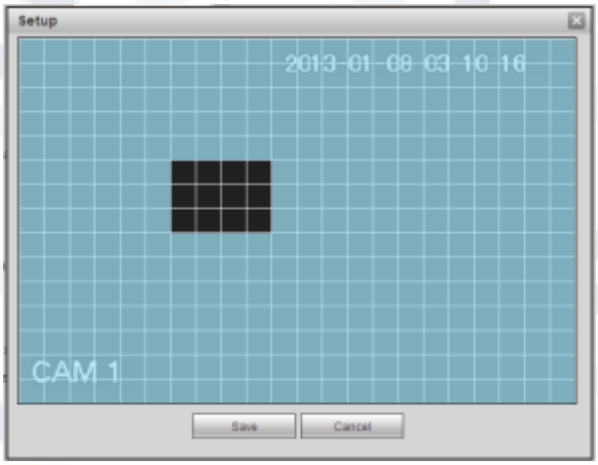

Figure 5-40

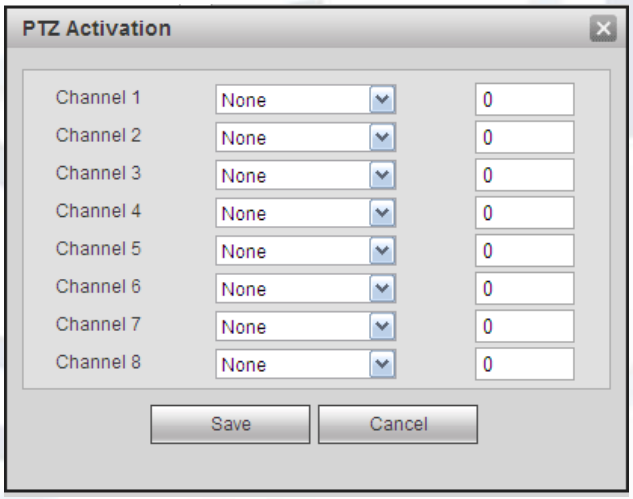

Figure 5-41

Please refer to the following sheet for detailed information:

Parameter	Function
Enable	You need to check the box to enable motion detection function. Please select a channel from the dropdown list.
Period	Motion detection function becomes activated in the specified periods. See Figure 5-39. There are six periods in one day. Please draw a circle to enable corresponding period. Click OK button, system goes back to motion detection interface, please click save button to exit.
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 5s to 600s.
Sensitivity	There are six levels. The sixth level has the highest sensitivity.
Region	There are six levels. The sixth level has the highest sensitivity. Region: If you select motion detection type, you can click this button to set motion detection zone. The interface is shown as in

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Parameter	Function
	Figure 5-40. There are PAL 22X18/NTSC 22X15 zones. Right click mouse you can go to full-screen display mode. Do remember clicking OK button to save your motion detection zone setup.
Record channel	System auto activates motion detection channel(s) to record once an alarm occurs. Please note you need to set motion detect record period and go to Storage-> Schedule to set current channel as schedule record.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Alarm out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when an alarm occurs.
Latch	System can delay the alarm output for specified time after an alarm ended. The value ranges from 1s to 300s.
Show message	System can pop up a message to alarm you in the local host screen if you enabled this function.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.
Message	When 3G network connection is OK, system can send out a message when motion detect occurs.
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
Tour	You need to check the box here to enable this function. System begins 1-wiindow or multiple-window tour display among the channel(s) you set to record when an alarm occurs. Please go to chapter **Error! Reference source not found.** to set tour interval and tour mode.
PTZ Activation	Here you can set PTZ movement when alarm occurs. Such as go to preset X. See Figure 5-41.
Video Matrix	This function is for motion detect only. Check the box here to enable video matrix function. Right now system supports one-channel tour function. System takes “first come and first serve” principle to deal with the activated tour. System will process the new tour when a new alarm occurs after previous alarm ended. Otherwise it restores the previous output status before the alarm activation.

- **Video Dectect: Video Loss**

The video loss interface is shown as in Figure 5-42.

After analysis video, system can generate a video loss alarm when the detected moving signal reached the sensitivity you set here.

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Please note video loss does not support anti-dither, sensitivity, region setup. For rest setups, please refer to page 151; **Video Detect: Motion Detect** for detailed information.

Figure 5-42

- **Video Detect: Camera Masking**

The camera masking interface is shown as in Figure 5-43.

After analysis video, system can generate a camera masking alarm when the detected moving signal reached the sensitivity you set here.

For detailed setups, please refer to chapter page 151; **Video Detect: Motion Detect** for detailed information.

Figure 5-43

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- **Alarm: Local Alarm**

Before operation, please make sure you have properly connected alarm devices such as buzzer. The input mode includes local alarm and network alarm.

The local alarm interface is shown as in Figure 5-44.

Figure 5-44

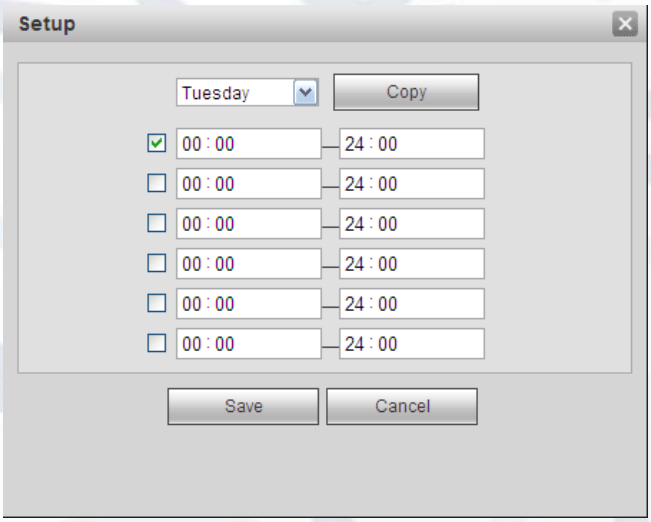

Figure 5-45

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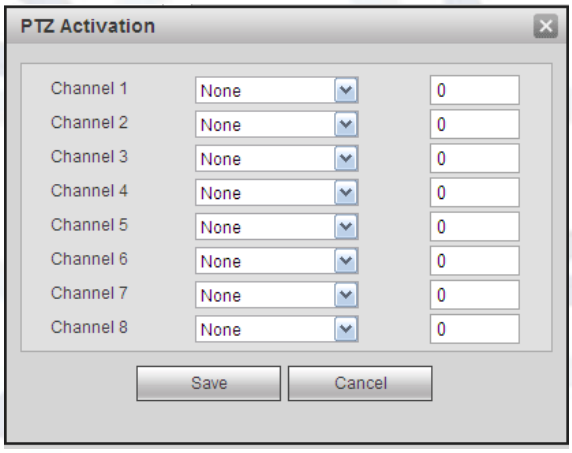

Figure 5-46

Please refer to the following sheet for detailed information:

Parameter	Function
Enable	You need to check the box to enable this function. Please select a channel from the dropdown list.
Period	This function becomes activated in the specified periods. There are six periods in one day. Please draw a circle to enable corresponding period. Select date. If you do not select, current setup applies to today only. You can select all week column to apply to the whole week. Click OK button, system goes back to local alarm interface, please click save button to exit.
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 5s to 600s.
Sensor type	There are two options: NO/NC.
Record channel	System auto activates motion detection channel(s) to record once an alarm occurs. Please note you need to set alarm record period and go to Storage-> Schedule to set current channel as schedule record.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Alarm out	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when an alarm occurs.
Latch	System can delay the alarm output for specified time after an alarm ended. The value ranges from 1s to 300s.
Show message	System can pop up a message to alarm you in the local host screen if you enabled this function.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.

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Parameter	Function
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
Tour	You need to check the box here to enable this function. System begins 1-wiindow or multiple-window tour display among the channel(s) you set to record when an alarm occurs. Please go to chapter **Error! Reference source not found.** to set tour interval and tour mode.
PTZ Activation	Here you can set PTZ movement when alarm occurs. Such as go to preset X.

- **Alarm: Net Alarm**

The network alarm interface is shown as in Figure 5-47. Network alarm refers to the alarm signal from the network. System does not anti-dither and sensor type setup.

Figure 5-47

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- **Alarm: Alarm Out**

Here you can set alarm output channel mode. See Figure 5-48.

Figure 5-48

- **Abnormity**

It includes six statuses: No disk, disk error, net disconnection, IP conflict and MAC conflict. See Figure 5-49 through Figure 5-54.

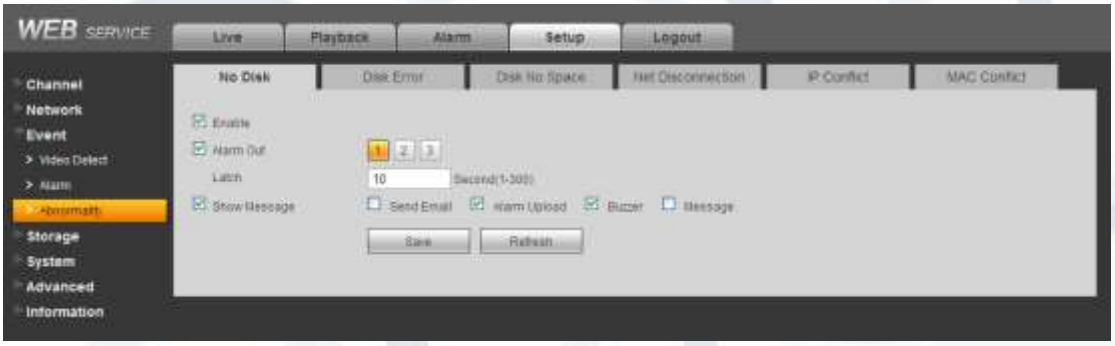

Figure 5-49

Figure 5-50

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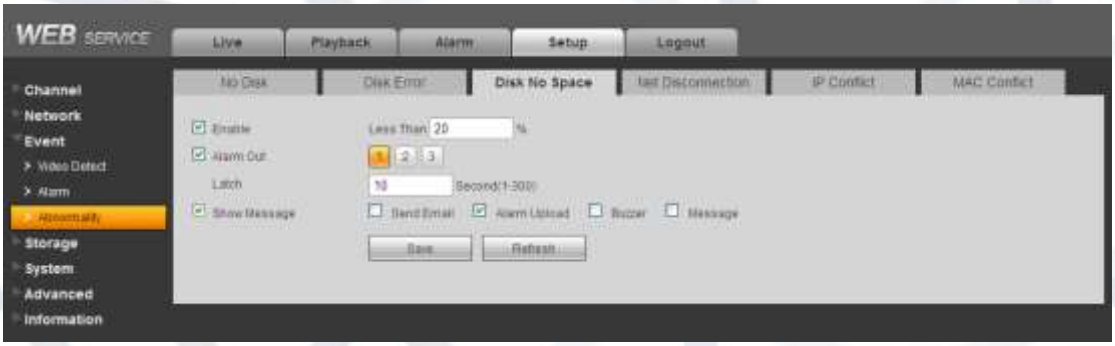

Figure 5-51

Figure 5-52

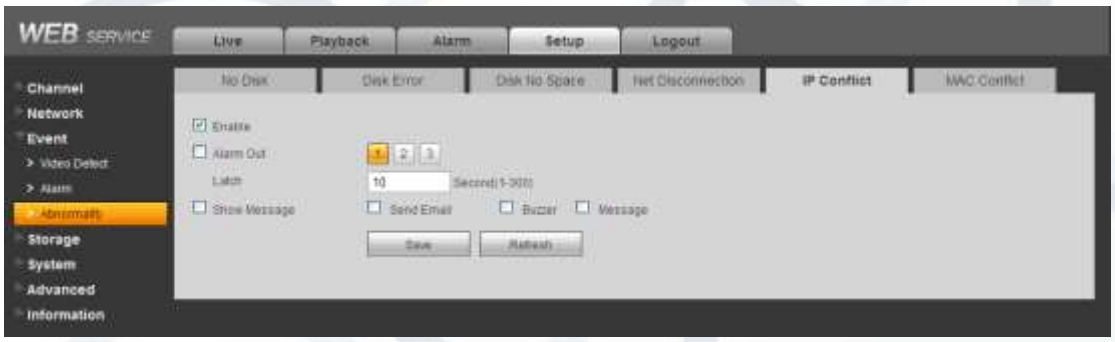

Figure 5-53

Figure 5-54

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Please refer to the following sheet for detailed information:

Parameter	Function
Event Type	The abnormal events include: No disk, disk error, disk has no space, net disconnection, IP conflict and MAC conflict. You can set one or more items here. Less than: You can set the minimum percentage value here (For disk not space only). The device can alarm when capacity is not sufficient. You need to draw a circle to enable this function.
Enable	Check the box here to enable selected function.
Alarm Out	Please select corresponding alarm output channel when an alarm occurs. You need to check the box to enable this function.
Latch	The alarm output can delay for the specified time after an alarm stops. The value ranges from 1s to 300s.
Show message	System can pop up a message to alarm you in the local host screen if you enabled this function.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.

5.8.5 Storage

- **Schedule**

In this interfaces, you can add or remove the schedule record setup. See Figure 5-55.

There are three record modes: general (auto), motion detect and alarm. There are six periods in one day. Please make sure you have enabled the corresponding record mode in the Setup->Storage->Conditions.

You can view the current time period setup from the color bar.

- Green color stands for the general record/snapshot.
- Yellow color stands for the motion detect record/snapshot..
- Red color stands for the alarm record/snapshot.

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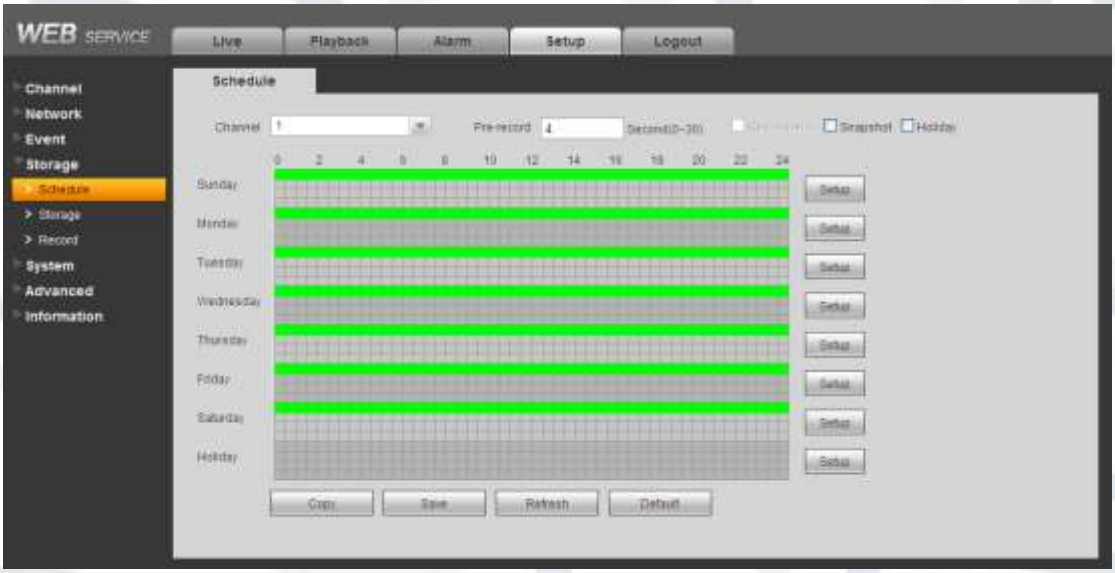

Figure 5-55

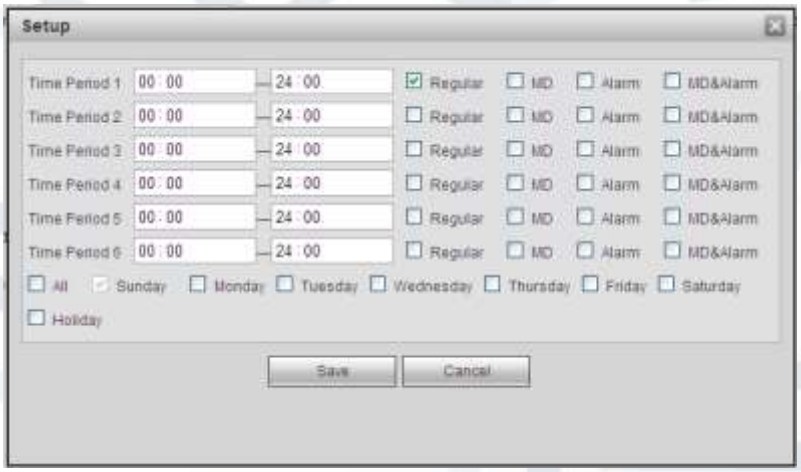

Figure 5-56

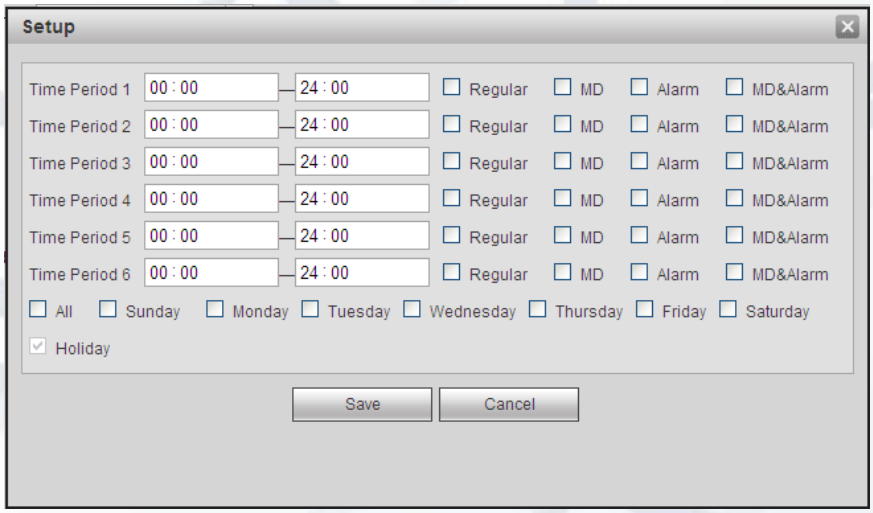

Figure 5-57

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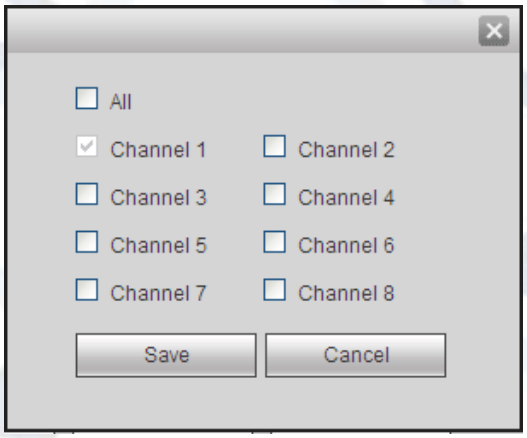

Figure 5-58

Please refer to the following sheet for detailed information:

Parameter	Function
Channel	Please select a channel from the dropdown list.
Pre-record	Please input pre-record time here. The value ranges from 0 to 30.
Redundancy	Check the box here to enable redundancy function. **Please note this function is null if there is only one HDD.**
Snapshot	Check the box here to enable snapshot function.
Holiday	Check the box here to enable holiday function.
Setup (Sunday to Saturday)	Click the Setup button, you can set record period. See Figure 5-56. There are six periods in one day. If you do not check the date at the bottom of the interface, current setup is for today only. Please click Save button and then exit.
Setup (Holiday)	Click the Setup button, you can set record period. See Figure 5-57. There are six periods in one day. If you check Holiday box, current channel shall record as your holiday setup here.
Copy	Copy function allows you to copy one channel setup to another. After setting in channel, click Copy button, you can go to interface Figure 5-58. You can see current channel name is grey such as channel 1. Now you can select the channel you wan to paste such as channel 5/6/7. If you wan to save current setup of channel 1 to all channels, you can click the first box “ALL”. Click the OK button to save current copy setup. Click the OK button in the Encode interface, the copy function succeeded.

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- **Storage: Local Storage**

The local interface is shown as in Figure 5-59. Here you can see HDD information. You can also operate the read-only, write-only, hot swap and format operation.

Figure 5-59

- **Storage: HDD Setting**

Here is for you to set HDD group. See Figure 5-60.

Figure 5-60

- **Storage: HDD Channel**

The HDD channel interface is shown as in Figure 5-61. Here you can set channel group.

Figure 5-61

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- **Storage: FTP**

The FTP interface is shown as in Figure 5-62.

The FTP function is on if you check the Enable box here.

When network is offline or malfunction, system can save record or picture to HDD.

Figure 5-62

- **Record control**

The record control interface is shown as in Figure 5-63.

Figure 5-63

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Please refer to the following sheet for detailed information:

Parameter	Function
Channel	Here you can view channel number. The number displayed here is the max channel amount of your device.
Status	There are three statuses: schedule, manual and stop.
Schedule	System enables auto record function as you set in record schedule setup (general, motion detect and alarm).
Manual	This has the highest priority. Enable corresponding channel to record no matter what period applied in the record setup.
Stop	Stop current channel record no matter what period applied in the record setup.
Start all/ stop all	Check the corresponding All button, you can enable or disable all channels record.

5.8.6 System

- **General: General**

The general interface includes **General, date/time** and **holiday setup.**

The general interface is shown as in Figure 5-64.

Figure 5-64

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Please refer to the following sheet for detailed information:

Parameter	Function
Device ID	This isto set device name.
Device No.	This isdevice channel number.
Language	You can select the language from the dropdown list. **Please note the device needs to reboot to get the modification activated.**
Video Standard	This isto display video standard such as PAL.
HDD full	Here is for you to select working mode when hard disk is full. There are two options: stop recording or rewrite. If current working HDD is overwritten or the current HDD is full while the next HDD is no empty, then system stops recording, If the current HDD is full and then next HDD is not empty, then system overwrites the previous files.
Pack duration	Here is for you to specify record duration. The value ranges from 1 to 120 minutes. Default value is 60 minutes.

- **General: Date and time**

The date and time interface is shown as in Figure 5-65

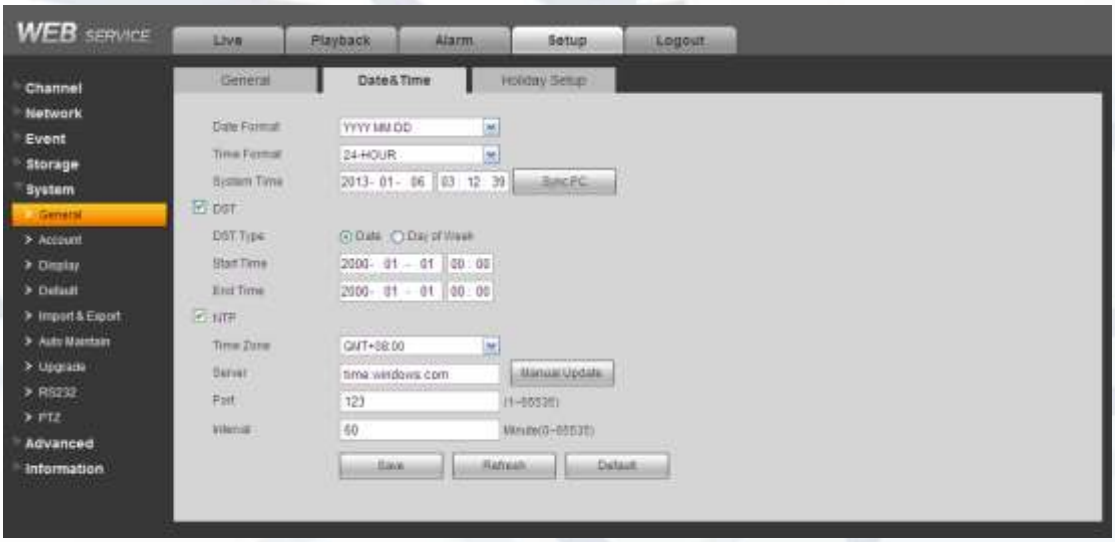

Figure 5-65

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Please refer to the following sheet for detailed information:

Parameter	Function
Date format	Here you can select date format from the dropdown list.
Time Format	There are two options: 24-H and 12-H.
Time zone	The time zone of the device.
System time	This isto set system time. It becomes valid after you set.
Sync PC	You can click this button to save the system time as your PC current time.
DST	Here you can set day night save time begin time and end time. You can set according to the date format or according to the week format.
NTP	You can check the box to enable NTP function.
NTP server	You can set the time server address.
Port	This isto set the time server port.
Interval	This isto set the sync periods between the device and the time server.

- **General: Holiday Setup**

Holiday setup interface is shown as in Figure 5-66.

Here you can check the box here to enable this function and then set.

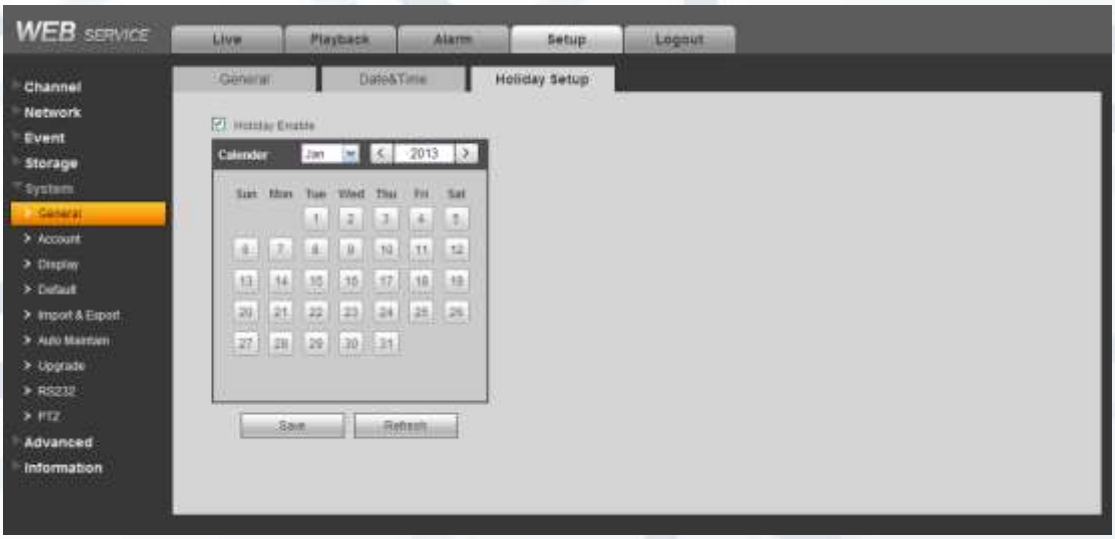

Figure 5-66

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- **Account**

Note:

- For the character in the following user name or the user group name, system supports a maximum of 6-digits. The space in the front or at the end of the string is null. The valid string includes: character, number, and underline.
- The user amount is 20 and the group amount is 8 when the device is shipped out of the factory. The factory default setup includes two levels: user and admin. You can set the corresponding group and then set the rights for the respective user in the specified groups.
- User management adopts group/user modes. The user name and the group name shall be unique. One user shall be included in only one group.

- **Account: User name**

In this interface you can add/remove user and modify user name. See Figure 5-67.

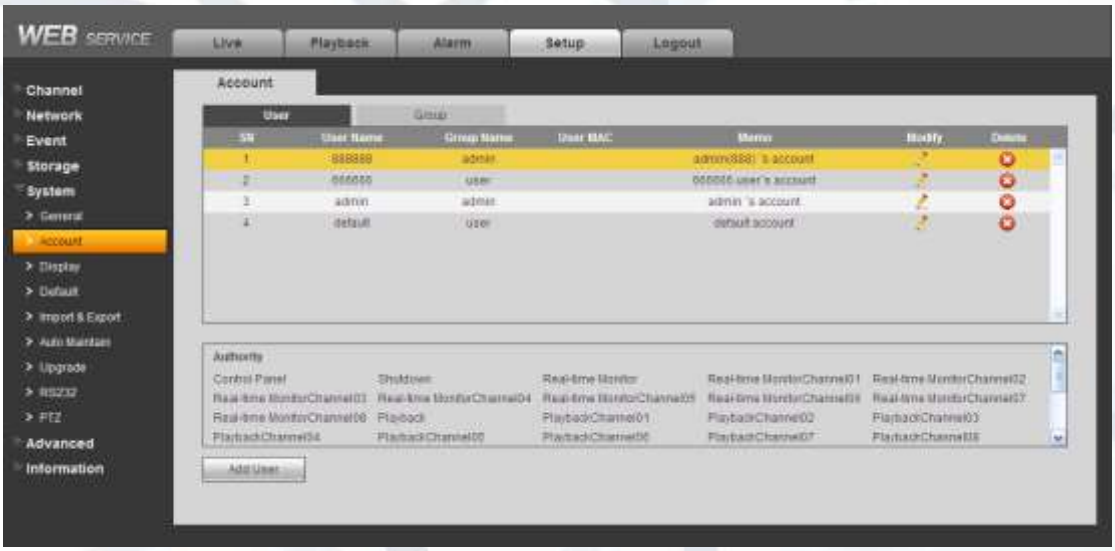

Figure 5-67

Add user: This isto add a name to group and set the user rights. See Figure 5-68. There are four default users: admin/888888/666666 and hidden user “default”. Except user 6666, other users have administrator right. The user 666666 can only have the monitor rights,.

Hidden user “default” is for system interior use only and can not be deleted. When there is no login user, hidden user “default” automatically login. You can set some rights such as monitor for this user so that you can view some channel view without login.

Here you can input the user name and password and then select one group for current user.
Please note the user rights shall not exceed the group right setup.

For convenient setup, please make sure the general user has the lower rights setup than the admin.

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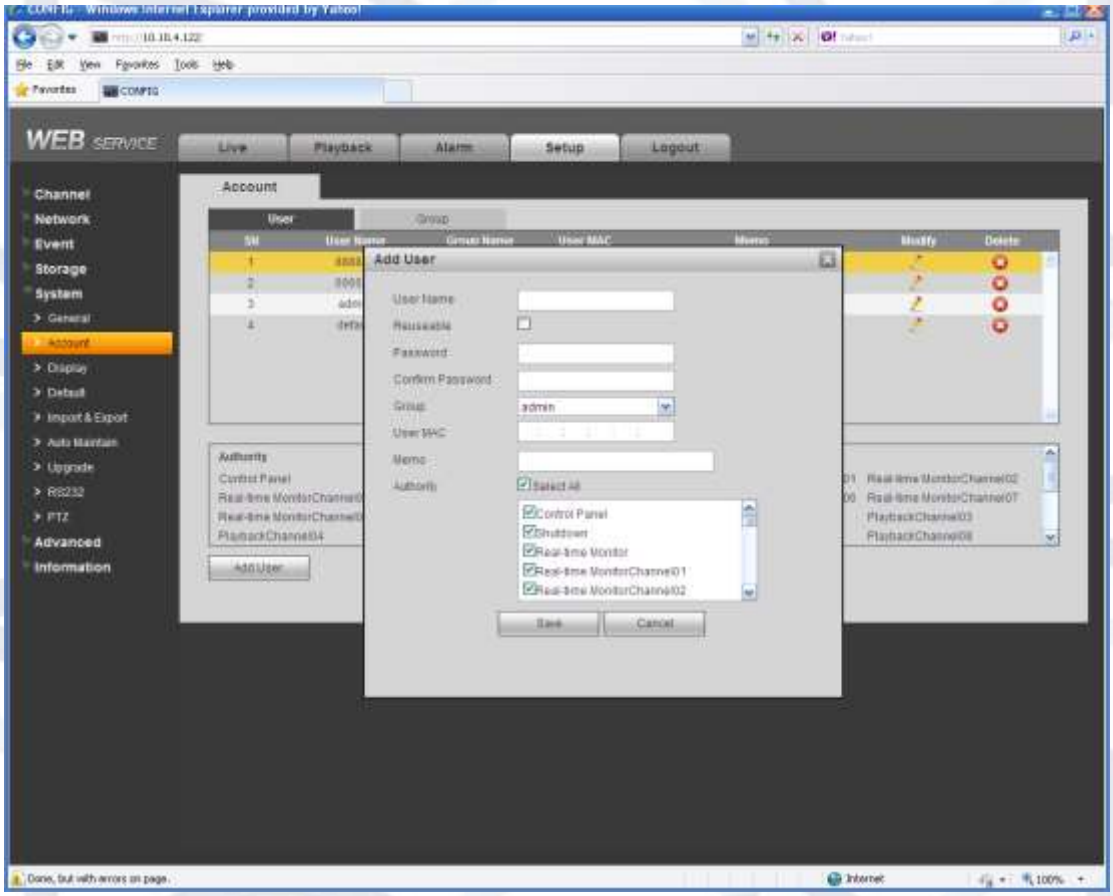

Figure 5-68

Modify user

This isto modify the user property, belonging group, password and rights. See Figure 5-69.

Modify password

This isto modify the user password. You need to input the old password and then input the new password twice to confirm the new setup. Please click the OK button to save.

Please note, the password ranges from 1-digit to 6-digit. It shall include the number only. For the user of the account rights, he can modify the password of other users.

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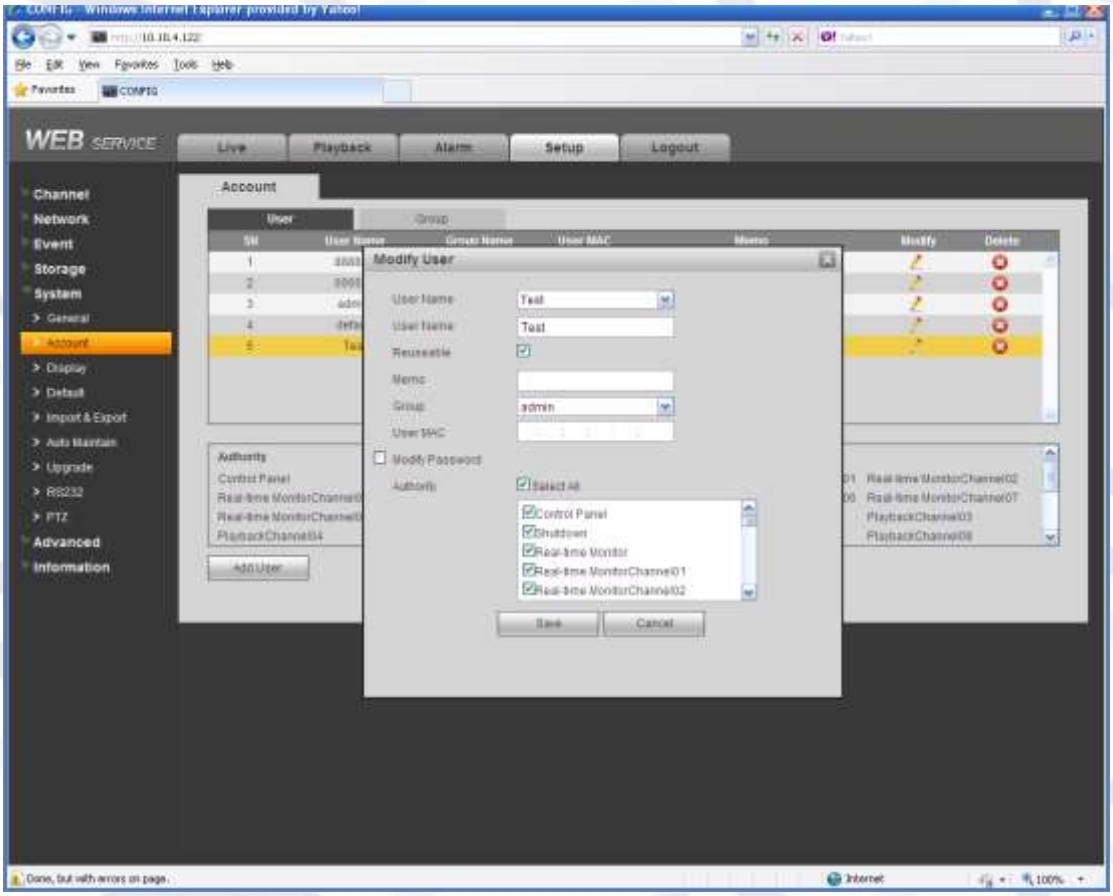

Figure 5-69

- **Account: Group**

The group management interface can add/remove group, modify group password and etc. The interface is shown as in Figure 5-70.

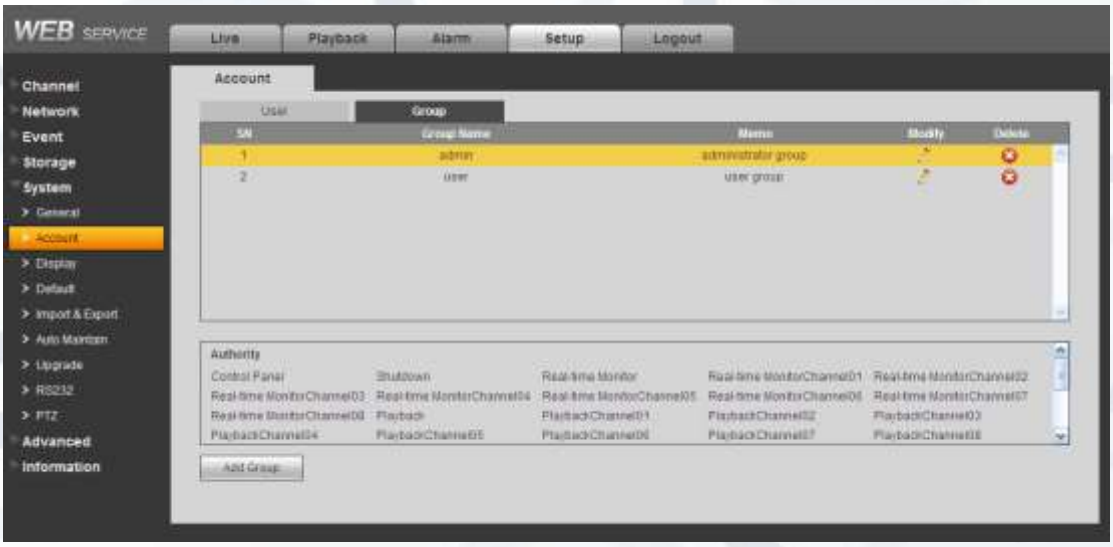

Figure 5-70

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Add group: This isto add group and set its corresponding rights. See Figure 5-71.

Please input the group name and then check the box to select the corresponding rights. It includes: shutdown/reboot device, live view, record control, PTZ control and etc.

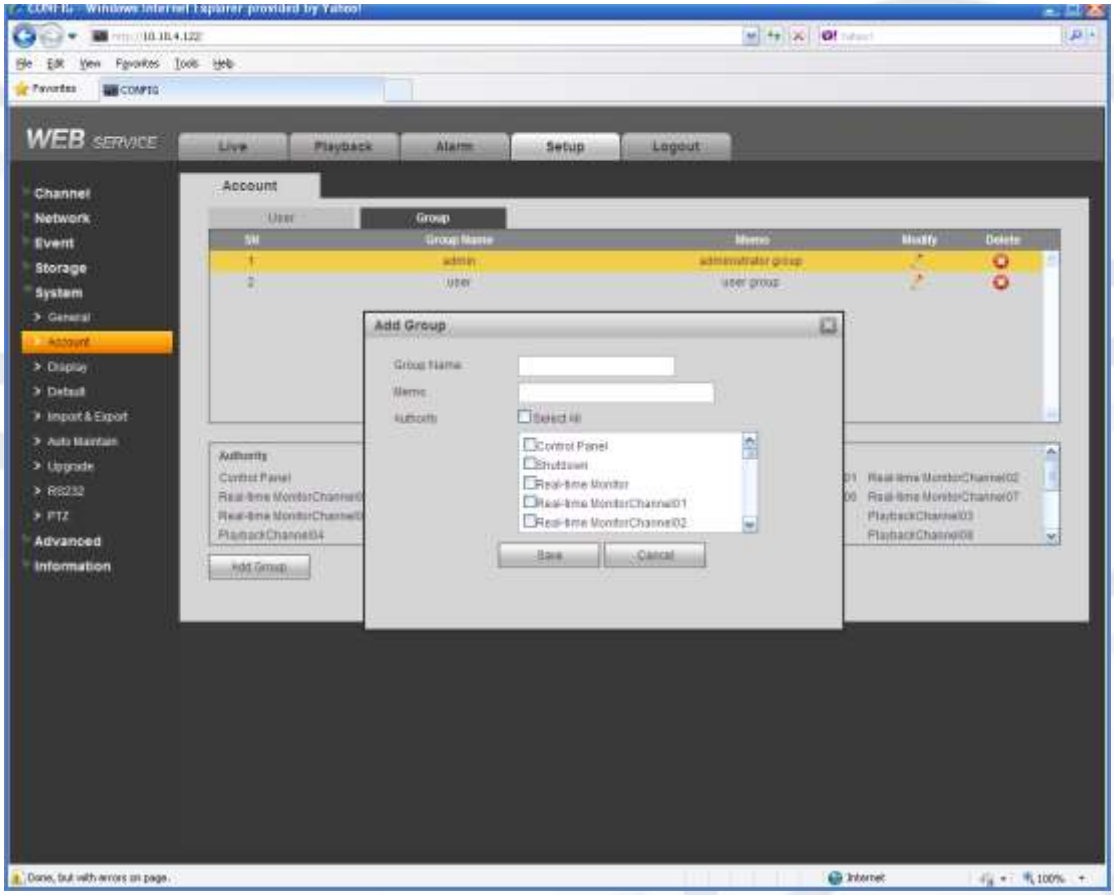

Figure 5-71

Modify group

Click the modify group button, you can see an interface is shown as in Figure 5-72.

Here you can modify group information such as remarks and rights.

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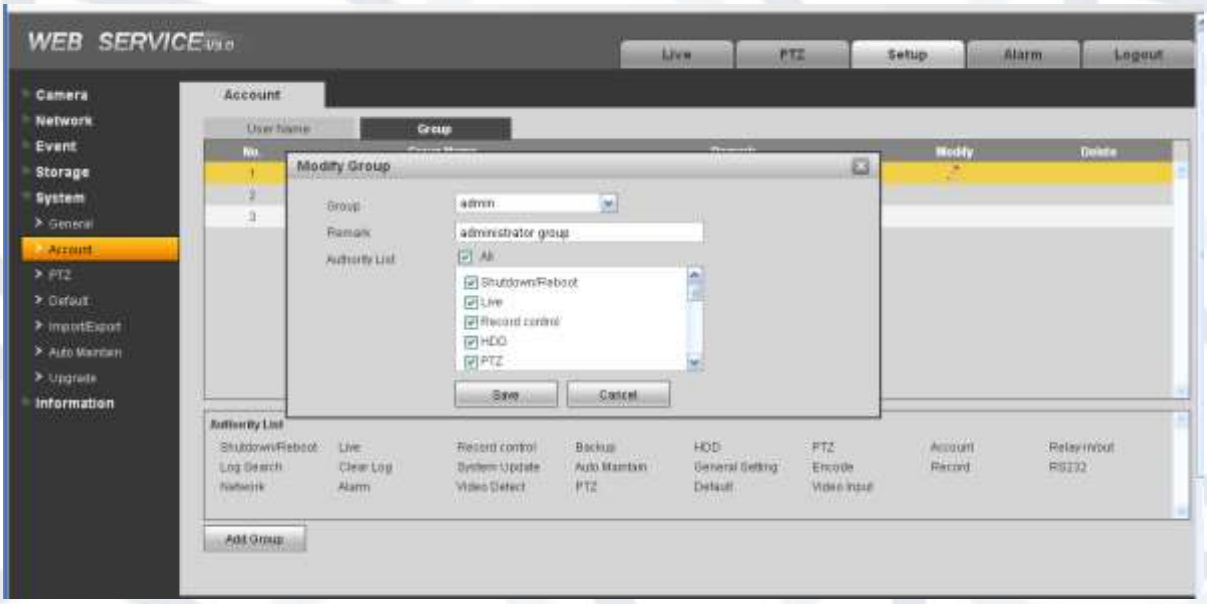

Figure 5-72

- **Display: GUI**

Display interface includes GUI, TV adjust, Tour and video matrix.

Here you can set background color and transparency level. See Figure 5-73.

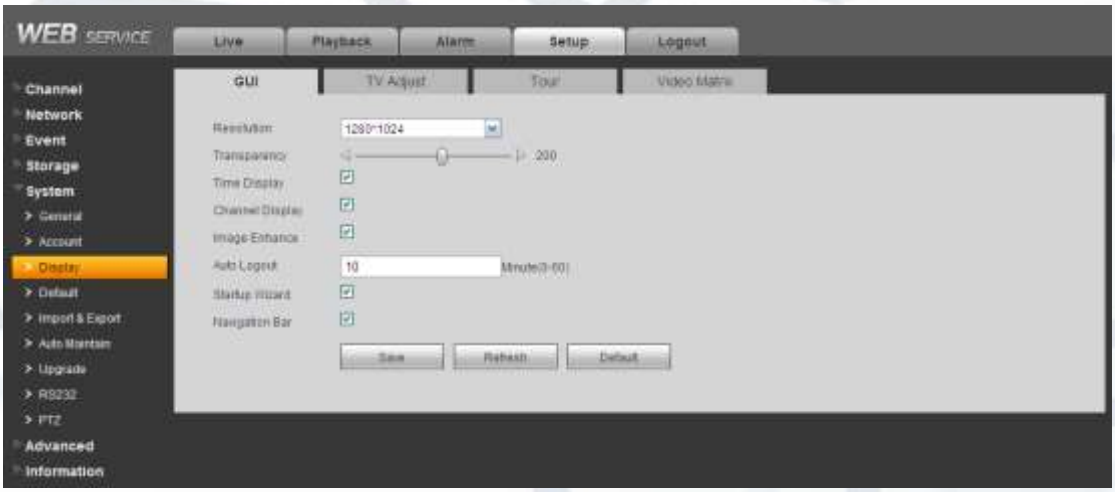

Figure 5-73

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Please refer to the following sheet for detailed information:

Parameter	Function
Resolution	There are four options: 1280×1024(default),1280×720,1024×768,800×600. Please note the system needs to reboot to activate current setup.
Transparency	Here is for you to adjust transparency. The value ranges from 128 to 255.
Time title/channel title	Check the box here, you can view system time and channel number on the monitor video.
Image enhance	Check the box; you can optimize the margin of the preview video.

- **Display: TV Adjust**

This isto set TV output region. See Figure 5-74.

Figure 5-74

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- **Display: Tour**

The tour interface is shown as in Figure 5-75. Here you can set tour interval, split mode, motion detect tour and alarm tour mode.

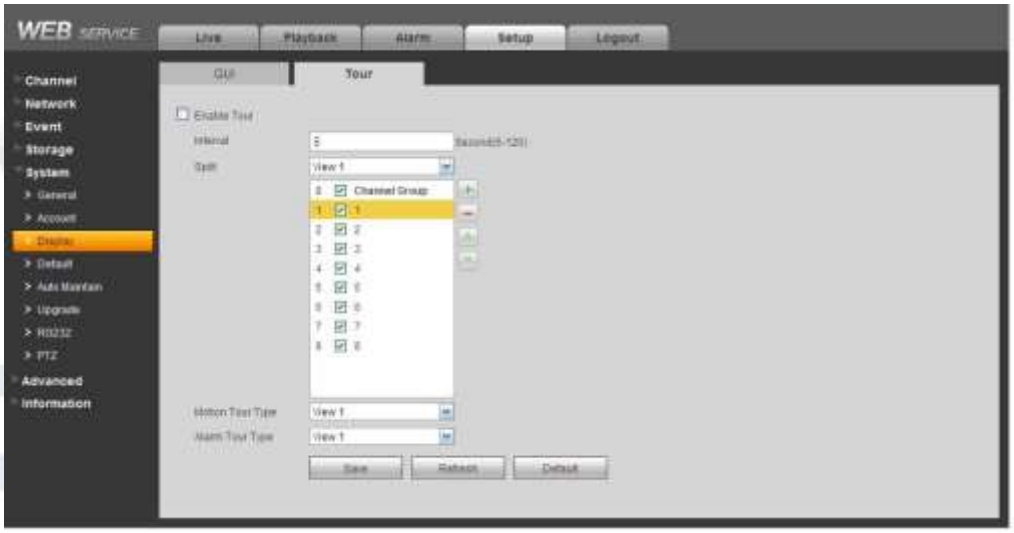

Figure 5-75

Please refer to the following sheet for detailed information:

Parameter	Function
Enable tour	Check the box here to enable tour function.
Interval	Here is for you to adjust transparency. The value ranges from 5 to 120s. The default setup is 5s.
Split	Here you can set window mode and channel group. System can support 1/4/8/9/16/25/36-window according to device channel amount.
Motion tour/Alarm tour	Here you can set motion detect tour/alarm tour window mode. System supports 1/8-window now.

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- **Display: Video Matrix**

The video matrix interface is shown as in Figure 5-76.

Here you can set video matrix output channel and interval. It supports 1/4/9/16 spot tour.

Figure 5-76

- **Default**

The default setup interface is shown as in Figure 5-77.

Here you can select Channel/Network/Event/Storage/System. Or you can check the All box to select all items.

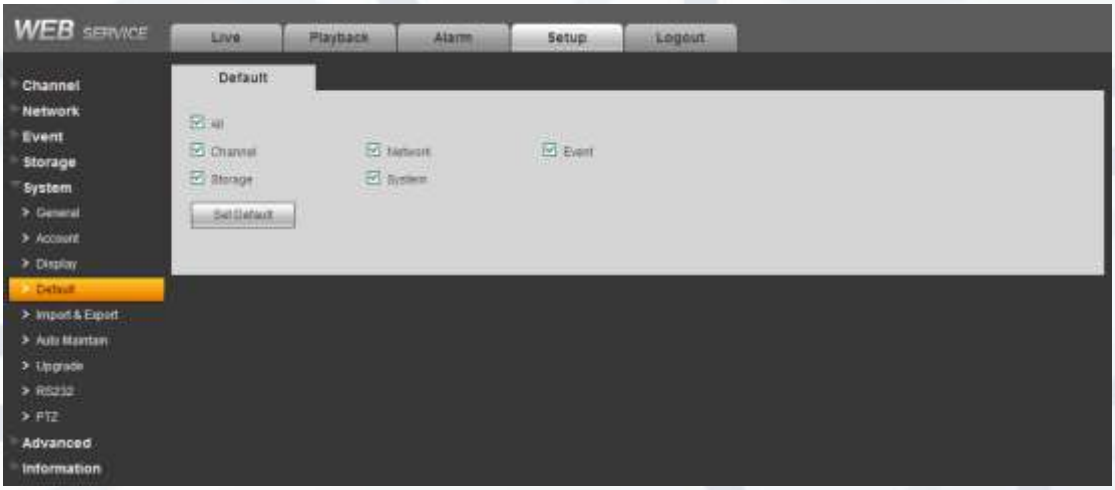

Figure 5-77

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- **Import/Export**

The interface is shown as in Figure 5-78.

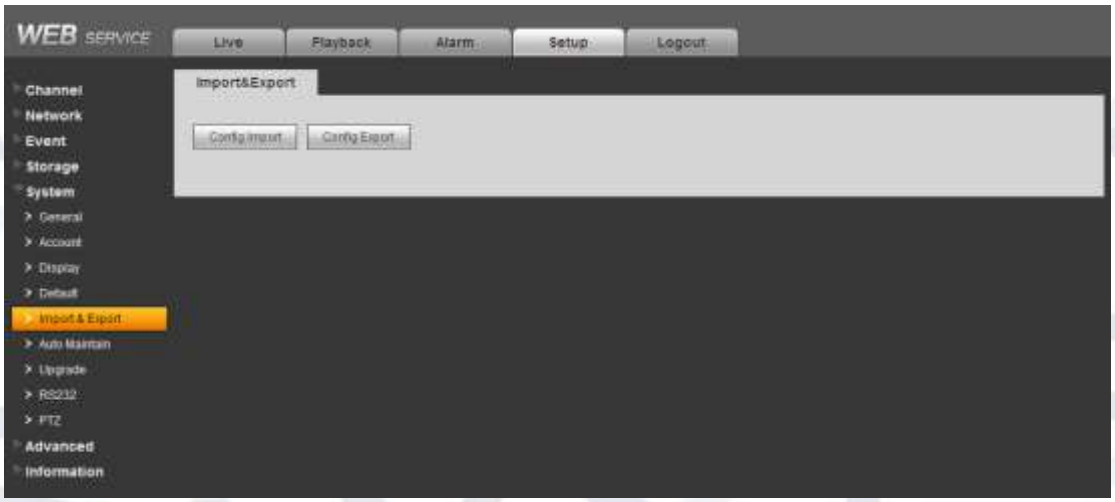

Figure 5-78

Please refer to the following sheet for detailed information.

Parameter	Function
Import	This isto import the local setup files to the system.
Export	This isto export the corresponding WEB setup to your local PC.

- **Auto maintenance**

The auto maintenance interface is shown as in Figure 5-79.

Here you can select auto reboot and auto delete old files interval from the dropdown list.
If you want to use the auto delete old files function, you need to set the file period.

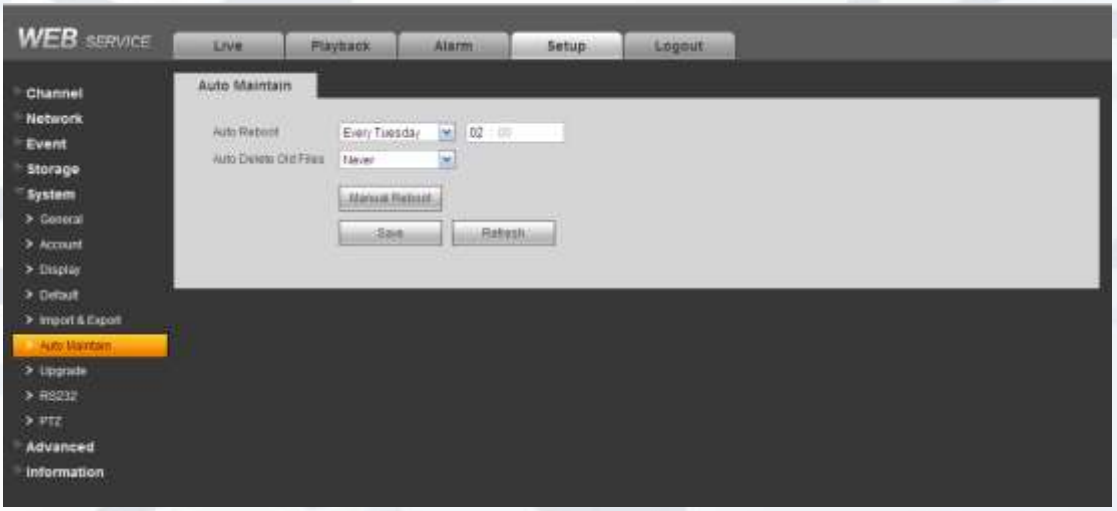

Figure 5-79

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- **Upgrade**

The upgrade interface is shown as in Figure 5-80.

Please select the upgrade file and then click the update button to begin update. Please note the file name shall be as *.bin. During the upgrade process, do not unplug the power cable, network cable, or shutdown the device.

Important: Improper upgrade program may result in device malfunction!

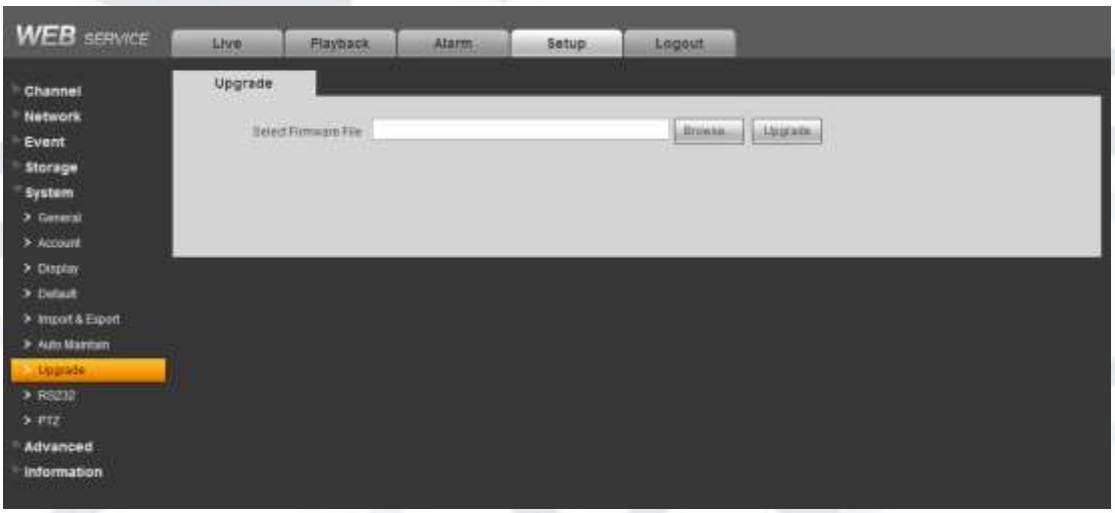

Figure 5-80

- **RS232**

The RS232 interface is shown as in Figure 5-81.

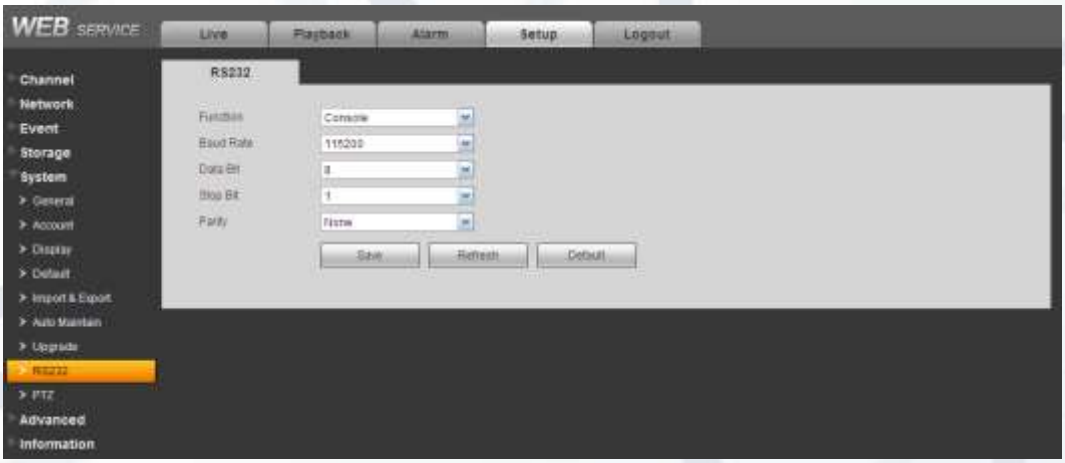

Figure 5-81

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Please refer to the following sheet for detailed information:

Parameter	Function
Protocol	Select the corresponding dome protocol. Default setup is console.
Baud Rate	Select the baud rate. Default setup is 115200.
Data Bit	The value ranges from 5 to 8. Default setup is 8.
Stop bit	There are two options: 1/2. Default setup is 1.
Parity	There are five options: none/odd/even/space/mark. Default setup is none.

- **PTZ**

The PTZ interface is shown as in Figure 5-82.

Before setup, please check the following connections are right:

- PTZ and decoder connection is right. Decoder address setup is right.
- Decoder A (B) line connects with DVR A (B) line.

Click Save button after you complete setup, you can go back to the monitor interface to control speed dome.

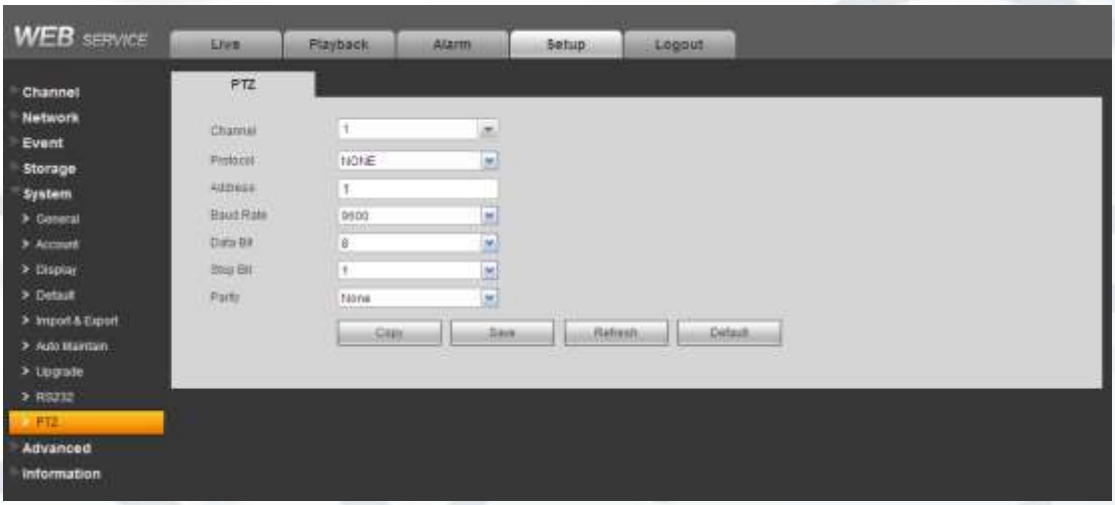

Figure 5-82

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Please refer to the following sheet for detailed information:

Parameter	Function
Channel	Select speed dome connected channel.
Protocol	Select the corresponding dome protocol such as PELCOD..
Address	Set corresponding dome address. Default value is 1. **Please note your setup here shall comply with your dome address; otherwise you can not control the speed dome.**
Baud Rate	Select the dome baud rate. Default setup is 9600.
Data Bit	Default setup is 8. Please set according to the speed dome dial switch setup.
Stop bit	Default setup is 1. Please set according to the speed dome dial switch setup.
Parity	Default setup is none. Please set according to the speed dome dial switch setup.

5.8.7 Advanced

- **Text Overlay**

The card overlay function is for financial areas. It includes Sniffer, information analysis and title overlay function. The Sniffer mode includes COM and network.

- **Text Overlay: COM Type**

The COM interface is shown as below. See Figure 5-83.

- **Protocol:** Please select from the dropdown list.
- **Setting:** Click COM setting button, the interface is shown as in RS232 interface. Please refer to page 177; **RS232**.
- **Overlay channel:** Please select the channel you want to overlay the card number.
- **Overlay mode:** There are two options: preview and encode. Preview means overlay the card number in the local monitor video. Encode means overlay the card number in the record file.
- **Overlay Position:** Here you can select the proper overlay position from the dropdown list.

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Figure 5-83

- **Text Overlay: Network Type**

The network type interface is shown as below. See Figure 5-84.

Here we take the ATM/POS protocol to continue.

There are two types: with or without the protocol according to client's requirements.

With the protocol:
For ATM/POS with the protocol, you just need to set the source IP, destination IP (sometimes you need to input corresponding port number).

Figure 5-84

Without the protocol:
For the ATM/POS without the protocol, the interface is shown as in Figure 5-85.

Source IP refers to host IP address that sends out information (usually This isthe device host.)
Destination IP refers to other systems that receive information.

Usually you do not need to set source port and target port.

There are total four group IP. The record channel applies to one group (optional) only.
Six frame ID groups verification can guarantee information validity and legal.

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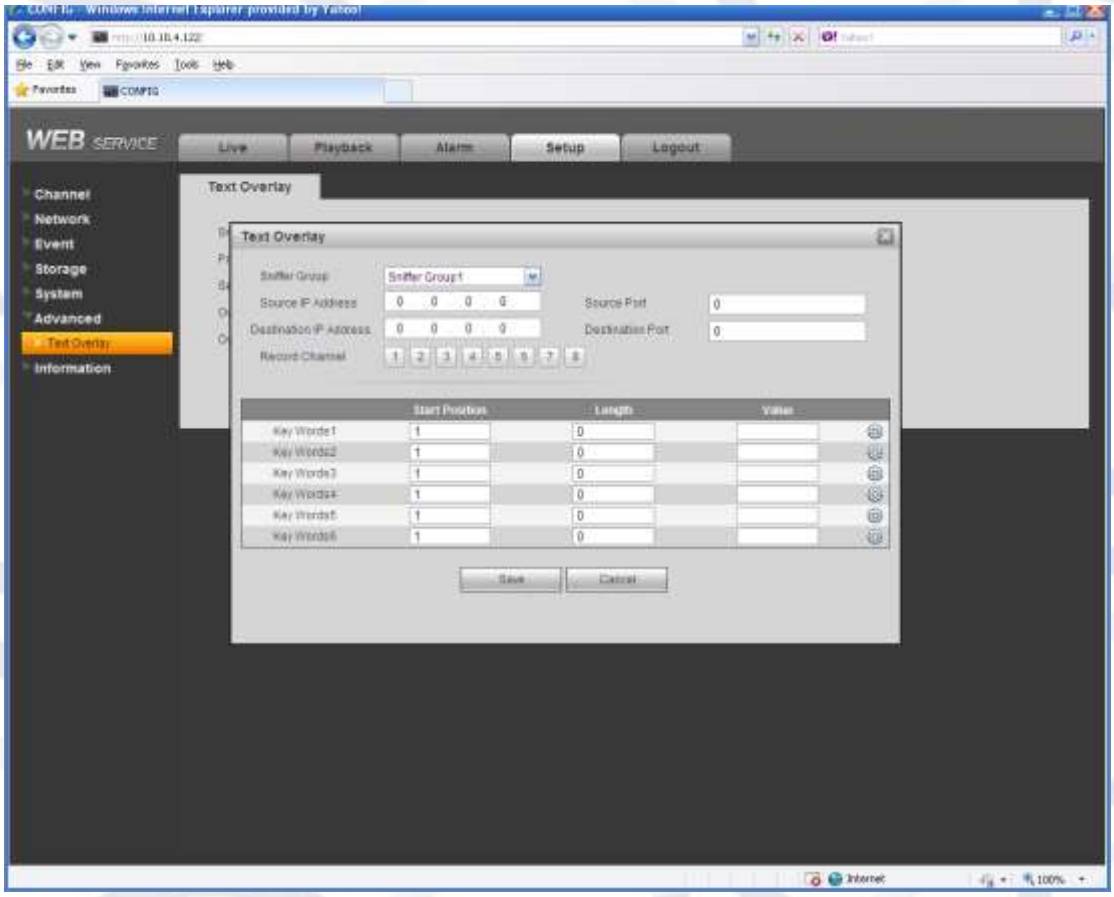

Figure 5-85

Click Data button you can set offset value, length, title according to your communication protocol and data package.

5.8.8 Information

- **Version**

The version interface is shown as in Figure 5-86.

Here you can view system hardware features, software version, release date and etc. Please note the following information is for reference only.

Figure 5-86

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- **Log**

Here you can view system log. See Figure 5-87.

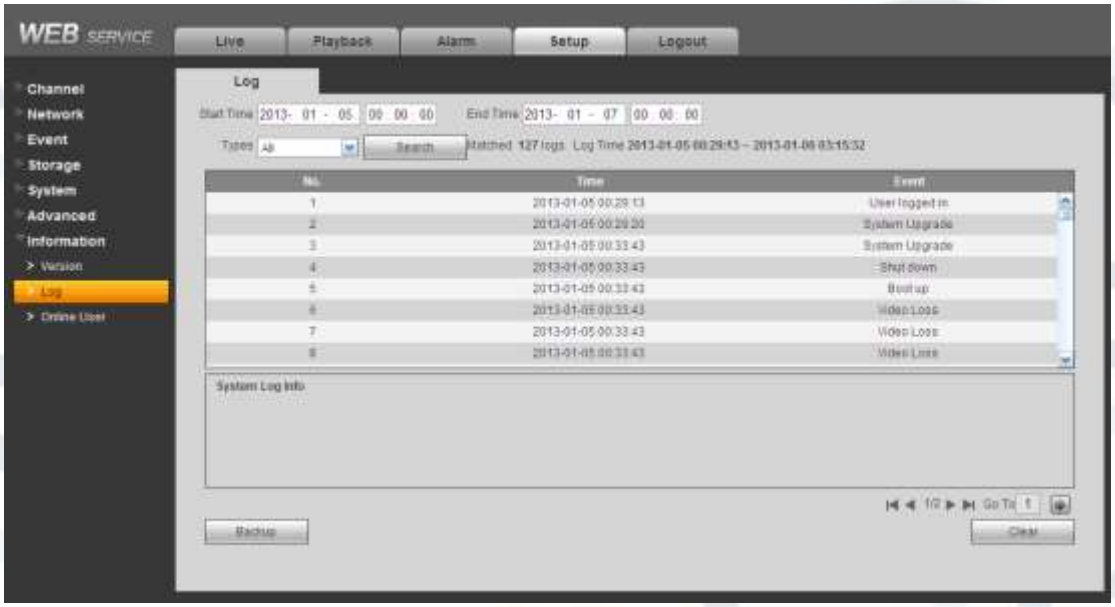

Figure 5-87

Please refer to the following sheet for log parameter information:

Parameter	Function
Type	Log types include: system operation, configuration operation, data operation, event operation, record operation, user management, log clear.
Start time	Set the start time of the requested log.
End time	Set the end time of the requested log.
Search	You can select log type from the drop down list and then click search button to view the list. You can click the stop button to terminate current search operation.
Detailed information	You can select one item to view the detailed information.
Clear	You can click this button to delete all displayed log files. Please note system does not support clear by type.
Backup	You can click this button to backup log files to current PC.

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- **Online User**

The online user interface is shown as in Figure 5-88.

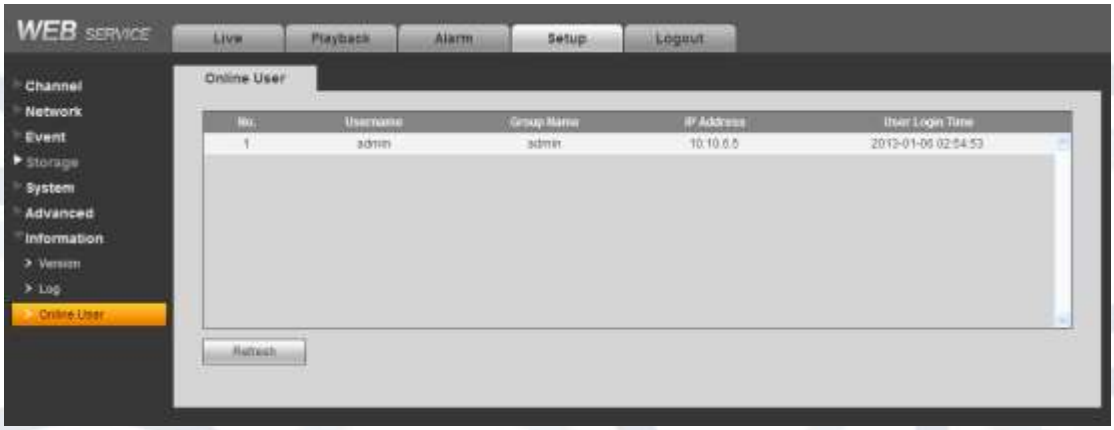

Figure 5-88

5.9 Search

Click search button, you can see an interface is shown as in Figure 5-89. Please set record type, record date, window display mode and channel name.

You can click the date on the right pane to select the date. The green highlighted date is system current date and the blue highlighted date means it has record files.

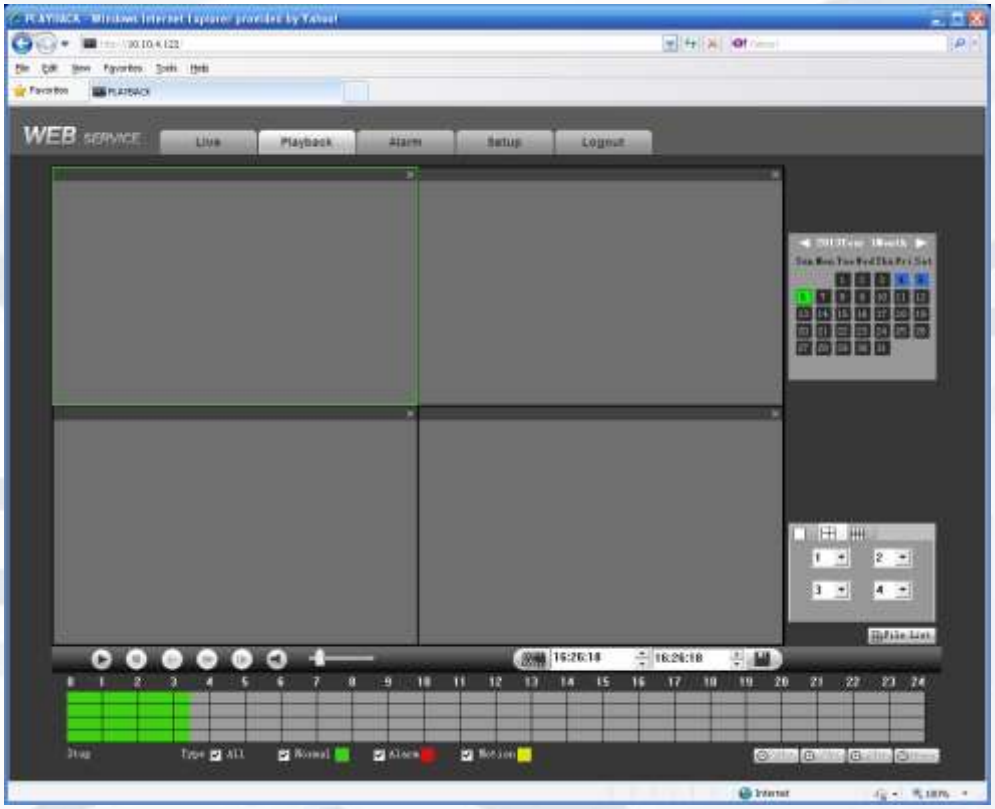

Figure 5-89

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Then please click search button, you can see the corresponding files in the list. See Figure 5-90.

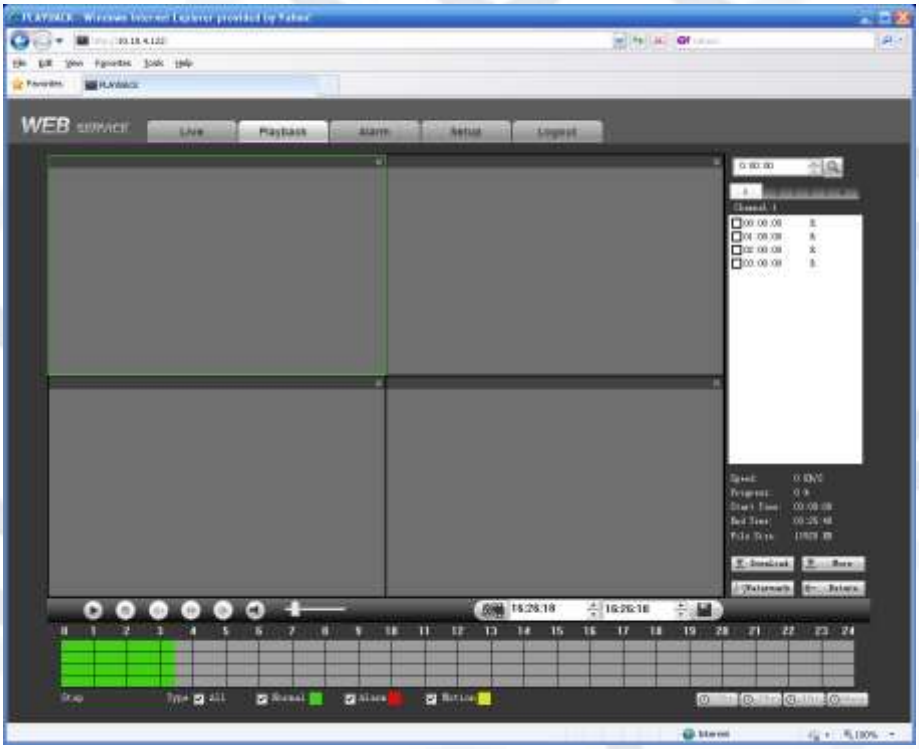

Figure 5-90

Select a file you want to play and then click Play button, system can begin playback. You can select to playback in full-screen. Please note for one channel, system can not playback and download at the same time. The record is automatically saved at the Download folder of the installation directory. Or you can download it to your specified directory. You can use the playback control bar to implement various operations such as play, pause, stop, slow play, fast play and etc. You can view playback channel and device IP during the playback process.

Select the file(s) you want to download and then click download button, system pops up a dialogue box shown as in Figure 5-91, then you can specify file name and path to download the file(s) to your local pc.

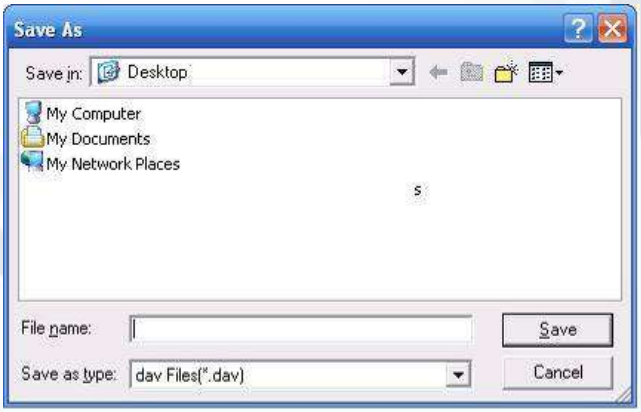

Figure 5-91

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Load more

This isfor you to search record or picture. You can select record channel, record type and record time to download. See Figure 5-92.

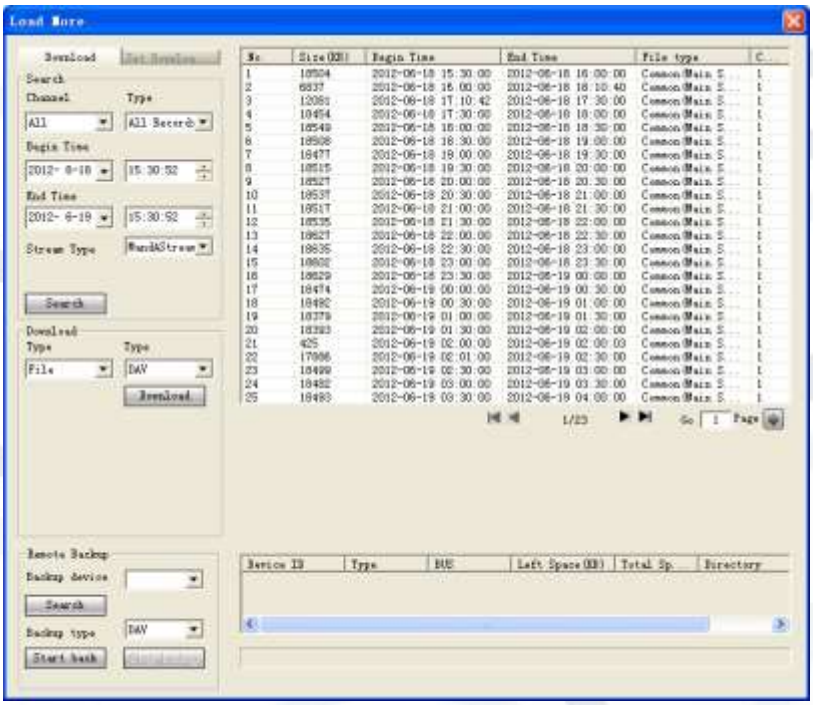

Figure 5-92

Remote backup:

In Figure 5-92, there is a remote back pane at the left bottom of the pane. It allows you to backup the record or picture to your local USB storage media via the Web remotely. Click the search button; you can view the available storage device. See Figure 5-93. Please select file(s) from the list and then Click Start backup button. Please refer to the previous page to set device download path.

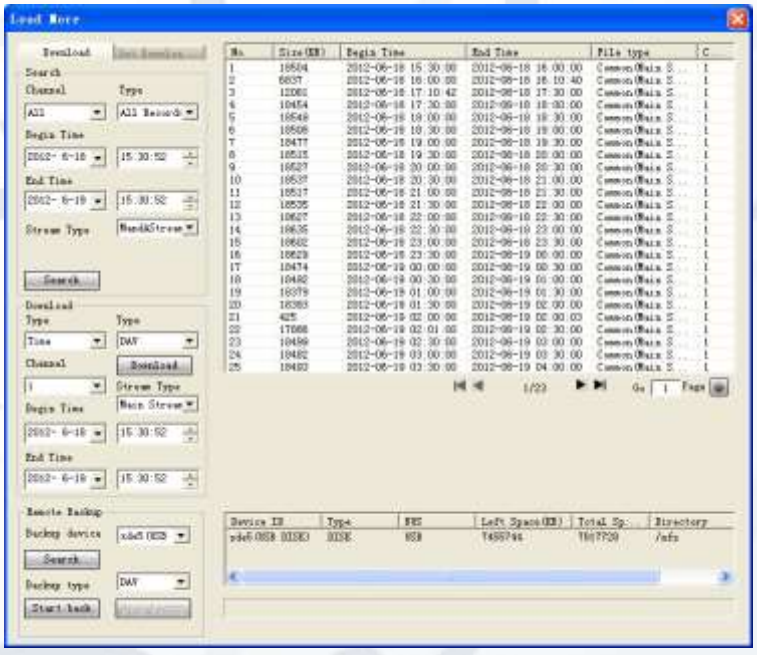

Figure 5-93

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Now you can see system begins to backup and the Stop backup button becomes valid. You can click it to terminate current operation.

At the bottom of the interface, there is a process bar for your reference.

5.10 Alarm

Click alarm function, you can see an interface is shown as Figure 5-94. Here you can set device alarm type and alarm sound setup.

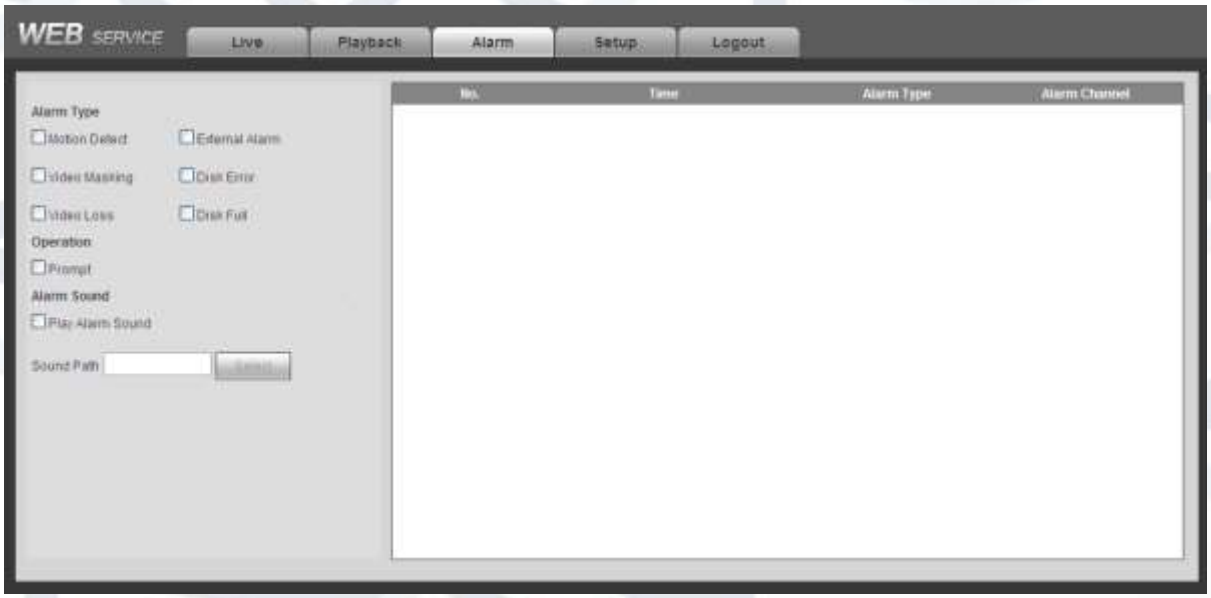

Figure 5-94

Please refer to the following sheet for detailed information:

(Please make sure current device can upload the alarm)

Type	Parameter	Function
Alarm Type	Video loss	System alarms when video loss occurs.
	Motion detection	System alarms when motion detection alarm occurs.
	Camera masking	System alarms when camera is viciously masking.
	Disk full	System alarms when disk is full.
	Disk error	System alarms when disk error occurs.
	External alarm	Alarm input device sends out alarm.
Operation	Prompt	Check the box here, system can automatically pops up an alarm icon on the Alarm button in the main interface when there is an alarm.
Alarm Sound	Play alarm sound	System sends out alarm sound when an alarm occurs. You can specify as you wish.
	Sound path	Here you can specify alarm sound file.

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5.11 Log out

Click log out button, system goes back to log in interface. See Figure 7-95.

You need to input user name and password to login again.

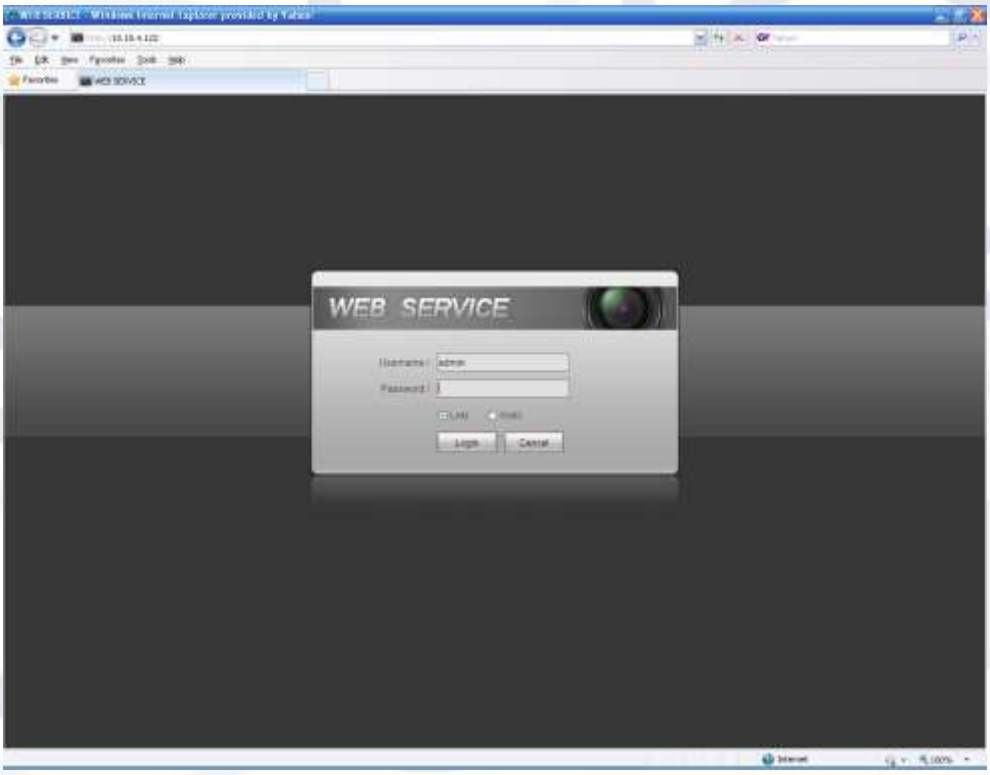

Figure 5-95

5.12 Un-install Web Control

You can use web un-install tool “uninstall web.bat” to un-install web control.

Please note, before you un-installation, please close all web pages, otherwise the un-installation might result in error.

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FAQ

1. DVR cannot boot up properly.

These are the possiblilities:

- Input power is not correct.
- Power connection is not correct.
- Power switch button is damaged.
- Program upgrade is wrong.
- HDD malfunction or something wrong with HDD ribbon.
- Seagate DB35.1，DB35.2，SV35 or Maxtor 17-g has compatibility problem. Please upgrade to the latest version to solve this problem.
- Front panel error.
- Main board is damaged.

2. DVR often automatically shuts down or stops running.

These are the possiblilities:

- Input voltage is not stable or This istoo low.
- HDD malfunction or something wrong wit the ribbon.
- Button power is not enough.
- Front video signal is not stable.
- Working environment is too harsh, too much dust.
- Hardware malfunction.

3. System can not detect hard disk.

These are the possiblilities:

- HDD is broken.
- HDD ribbon is damaged.
- HDD cable connection is loose.
- Main board SATA port is broken.

4. There is no video output whether This isone-channel, multiple-channel or all-channel output.

These are the possiblilities:

- Program is not compatible. Please upgrade to the latest version.
- Brightness is set to 0. Please restore factory default setup.
- There is no video input signal or This istoo weak.
- Check privacy mask setup or your screen saver.
- DVR hardware malfunctions.

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5. Real-time video color is distorted.

These are the possiblilities:

- When using BNC output, NTSC and PAL setup is not correct. The real-time video becomes black and white.
- DVR and monitor resistance is not compatible.
- Video transmission is too long or degrading is too huge.
- DVR color or brightness setup is not correct.

6. Can not search local records.

These are the possiblilities:

- HDD ribbon is damaged.
- HDD is broken.
- Upgraded program is not compatible.
- The recorded file has been overwritten.
- Record function has been disabled.

7. Video is distorted when searching local records.

These are the possiblilities:

- Video quality setup is too low.
- Program read error, bit data is too small. There is mosaic in the full screen. Please restart the DVR to solve this problem.
- HDD data ribbon error.
- HDD malfunction.
- DVR hardware malfunctions.

8. There is no audio when monitor.

These are the possiblilities:

- This isnot a power picker.
- This isnot a power acoustics.
- Audio cable is damaged.
- DVR hardware malfunctions.

9. There is audio when monitor but there is no audio when system playback.

These are the possiblilities:

- Setup is not correct. Please enable audio function
- Corresponding channel has no video input. Playback is not continuous when the screen is blue.

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10. Time display is not correct.

These are the possiblilities:

- Setup is not correct
- Battery contact is not correct or voltage is too low.
- Crystal is broken.

11. DVR can not control PTZ.

These are the possiblilities:

- Front panel PTZ error
- PTZ decoder setup, connection or installation is not correct.
- Cable connection is not correct.
- PTZ setup is not correct.
- PTZ decoder and DVR protocol is not compatible.
- PTZ decoder and DVR address is not compatible.
- When there are several decoders, please add 120 Ohm between the PTZ decoder A/B cables furthest end to delete the reverberation or impedance matching. Otherwise the PTZ control is not stable.
- The distance is too far.

12. Motion detection function does not work.

These are the possiblilities:

- Period setup is not correct.
- Motion detection zone setup is not correct.
- Sensitivity is too low.
- For some versions, there is hardware limit.

13. Can not log in client-end or web.

These are the possiblilities:

- For Windows 98 or Windows ME user, please update your system to Windows 2000 sp4. Or you can install client-end software of lower version. Please note right now, our DVR is not compatible with Windows VISTA control.
- ActiveX control has been disabled.
- No dx8.1 or higher. Please upgrade display card driver.
- Network connection error.
- Network setup error.
- Password or user name is invalid.
- Client-end is not compatible with DVR program.

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14. There is only mosaic no video when preview or playback video file remotely.

These are the possiblilities:

- Network fluency is not good.
- Client-end resources are limit.
- There is multiple-cast group setup in DVR. This mode can result in mosaic. Usually we do not recommend this mode.
- There is privacy mask or channel protection setup.
- Current user has no right to monitor.
- DVR local video output quality is not good.

15. Network connection is not stable.

These are the possiblilities:

- Network is not stable.
- IP address conflict.
- MAC address conflict.
- PC or DVR network card is not good.

16. Burn error /USB back error.

These are the possiblilities:

- Burner and DVR are in the same data cable.
- System uses too much CPU resources. Please stop record first and then begin backup.
- Data amount exceeds backup device capacity. It may result in burner error.
- Backup device is not compatible.
- Backup device is damaged.

17. Keyboard can not control DVR.

These are the possiblilities:

- DVR serial port setup is not correct
- Address is not correct
- When there are several switchers, power supply is not enough.
- Transmission distance is too far.

18. Alarm signal can not been disarmed.

These are the possiblilities:

- Alarm setup is not correct.
- Alarm output has been opened manually.
- Input device error or connection is not correct.
- Some program versions may have this problem. Please upgrade your system.

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19. Alarm function is null.

These are the possiblilities:

- Alarm setup is not correct.
- Alarm cable connection is not correct.
- Alarm input signal is not correct.
- There are two loops connect to one alarm device.

20. Record storage period is not enough.

These are the possiblilities:

- Camera quality is too low. Lens is dirty. Camera is installed against the light. Camera aperture setup is not correct.
- HDD capacity is not enough.
- HDD is damaged.

21. Can not playback the downloaded file.

These are the possiblilities:

- There is no media player.
- No DXB8.1 or higher graphic acceleration software.
- There is no DivX503Bundle.exe control when you play the file transformed to AVI via media player.
- No DivX503Bundle.exe or ffdshow-2004 1012 .exe in Windows XP OS.

22. Forgot local menu operation password or network password

Please contact your local service engineer or our sales person for help. We can guide you to solve this problem.

23. For the HD-SDI 1080P 1.5U and 2U series product, system loses frames when recording local file or when the playback is not smooth enough.

These are the possiblilities:

- Close extra stream record function.
- Close snapshot function.
- Reduce monitor channel amount of the WEB.
- Close FTP upload function.

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Daily Maintenance

- Please use a soft brush to clean the board, socket connector and the chassis regularly.
- The device should be correctly earthed in case there is audio/video electrical signal disturbance. Keep the device away from the static voltage or induced voltage.
- Please unplug the power cable before you remove the audio/video signal, RS232 or RS485 cable.
- Do not connect the TV to the local video output port (VOUT). It may result in a video output circuit loop.
- Always shut down the device properly. Please use the shutdown function in the menu, or you can press the power button in on the rear panel for at least three seconds to shut down the device. If you do not shutdown the device via these methods it may result in causing the HDD to malfunction or to permantly damage it.
- Please make sure the device is away from the direct sunlight or other heating sources. Provide decent ventilation at all times.
- Please check and maintain the device regularly.

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